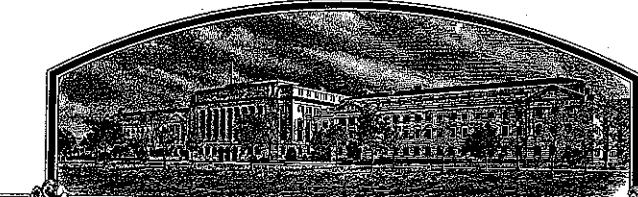


200300157

No.



**THE UNITED STATES OF AMERICA**

**TO ALL TO WHOM THESE PRESENTS SHALL COME:**

**Lebanon Seaboard Corporation**

Witness, THERE HAS BEEN PRESENTED TO THE

Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED DISTINCT VARIETY OF SEXUALLY REPRODUCED, OR TUBER PROPAGATED PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREBE ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO IS, FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW, THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF TWENTY YEARS FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FEES AND PERIODIC REPLENISHMENT OF VIABLE BASIC SEED OF THE VARIETY IN A PUBLIC REPOSITORY AS PROVIDED BY LAW, THE RIGHT TO EXCLUDE OTHERS FROM SELLING THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, OR IMPORTING IT, OR EXPORTING IT, OR CONDITIONING IT FOR PROPAGATION, OR STOCKING IT FOR ANY OF THE ABOVE PURPOSES, OR USING IT IN PRODUCING A HYBRID OR DIFFERENT VARIETY THEREFROM, TO THE EXTENT PROVIDED BY THE PLANT VARIETY PROTECTION ACT. (84 STAT. 1542, AS AMENDED, 7 U.S.C. 2321 ET SEQ.)

**BLUEGRASS, KENTUCKY**

'Sonoma'

In Testimony Whereof, I have hereunto set my hand  
and caused the seal of the Plant Variety  
Protection Office to be affixed at the City of  
Washington, D.C. this twentieth day of August,  
in the year two thousand and eight.

Attest:

Commissioner  
Plant Variety Protection Office  
Agricultural Marketing Service

<p style="text-align: center;"><b>U.S. DEPARTMENT OF AGRICULTURE AGRICULTURAL MARKETING SERVICE SCIENCE AND TECHNOLOGY - PLANT VARIETY PROTECTION OFFICE</b></p> <p style="text-align: center;"><b>APPLICATION FOR PLANT VARIETY PROTECTION CERTIFICATE</b> <i>(Instructions and information collection burden statement on reverse)</i></p>		<p>The following statements are made in accordance with the Privacy Act of 1974 (5 U.S.C. 552a) and the Paperwork Reduction Act (PRA) of 1995.</p> <p>Application is required in order to determine if a plant variety protection certificate is to be issued (7 U.S.C. 2421). Information is held confidential until certificate is issued (7 U.S.C. 2426).</p>		
<b>1. NAME OF OWNER</b> Lebanon Seaboard Corp <i>corporation</i> <small>(ST:6/12/2008)</small>		<b>2. TEMPORARY DESIGNATION OR EXPERIMENTAL NAME</b> A97-1323&LTP1323		<b>3. VARIETY NAME</b> Sonoma
<b>4. ADDRESS</b> (Street and No., or R.F.D. No., City, State, and ZIP Code, and Country)  P.O. Box 10 Huntsville, Utah 84317-0010		<b>5. TELEPHONE</b> (Include area code) 503-580-7333		<b>FOR OFFICIAL USE ONLY</b> <b>PVPO NUMBER</b> <b>200300157</b>
<b>7. IF THE OWNER NAMED IS NOT A "PERSON", GIVE FORM OF ORGANIZATION (corporation, partnership, association, etc.)</b> Corporation		<b>8. IF INCORPORATED, GIVE STATE OF INCORPORATION</b> Pennsylvania		<b>6. FAX</b> (Include area code) 801-745-4610
				<b>9. DATE OF INCORPORATION</b> 1949
<b>10. NAME AND ADDRESS OF OWNER REPRESENTATIVE(S) TO SERVE IN THIS APPLICATION. (First person listed will receive all papers)</b>  Tim Ford, Research Agronomist P.O. Box 10 Huntsville, Utah 84317-0010				
<b>11. TELEPHONE</b> (Include area code) <b>503-580-7333</b>		<b>12. FAX</b> (Include area code) <b>801-745-4610</b>		<b>13. E-MAIL</b> <b>tford@lebsea.com</b>
<b>14. CROP KIND</b> (Common Name) <b>Kentucky Bluegrass</b>		<b>16. FAMILY NAME</b> (Botanical) <b>Poa</b> <i>pratensis</i>		<b>18. DOES THE VARIETY CONTAIN ANY TRANSGENES? (OPTIONAL)</b> <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO <small>IF SO, PLEASE GIVE THE ASSIGNED USDA-APHIS REFERENCE NUMBER FOR THE APPROVED PETITION TO DEREGULATE THE GENETICALLY MODIFIED PLANT FOR COMMERCIALIZATION.</small>
<b>15. GENUS AND SPECIES NAME OF CROP</b> <b>Poa</b> <i>pratensis</i>		<b>17. IS THE VARIETY A FIRST GENERATION HYBRID?</b> <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		<b>20. DOES THE OWNER SPECIFY THAT SEED OF THIS VARIETY BE SOLD AS A CLASS OF CERTIFIED SEED? (See Section 83(a) of the Plant Variety Protection Act)</b> <input type="checkbox"/> YES <small>(If "yes", answer items 21 and 22 below)</small> <input checked="" type="checkbox"/> NO <small>(If "no", go to item 23)</small>
<b>19. CHECK APPROPRIATE BOX FOR EACH ATTACHMENT SUBMITTED</b> <small>(Follow instructions on reverse)</small> <ul style="list-style-type: none"> <li>a. <input checked="" type="checkbox"/> Exhibit A. Origin and Breeding History of the Variety</li> <li>b. <input checked="" type="checkbox"/> Exhibit B. Statement of Distinctness</li> <li>c. <input checked="" type="checkbox"/> Exhibit C. Objective Description of Variety</li> <li>d. <input checked="" type="checkbox"/> Exhibit D. Additional Description of the Variety (Optional)</li> <li>e. <input checked="" type="checkbox"/> Exhibit E. Statement of the Basis of the Owner's Ownership</li> <li>f. <input checked="" type="checkbox"/> Exhibit F. Declaration Regarding Deposit <i>(ST:6/12/08)</i></li> <li>g. <input checked="" type="checkbox"/> Voucher Sample (3,000 viable untreated seeds or, for tuber propagated varieties, verification that tissue culture will be deposited and maintained in an approved public repository)</li> <li>h. <input checked="" type="checkbox"/> Filing and Examination Fee (\$4,382), made payable to "Treasurer of the United States" (Mail to the Plant Variety Protection Office)</li> </ul>				<b>21. DOES THE OWNER SPECIFY THAT SEED OF THIS VARIETY BE LIMITED AS TO NUMBER OF CLASSES?</b> <input type="checkbox"/> YES <input type="checkbox"/> NO <small>IF YES, WHICH CLASSES? <input type="checkbox"/> FOUNDATION <input type="checkbox"/> REGISTERED <input type="checkbox"/> CERTIFIED</small>
<b>23. HAS THE VARIETY (INCLUDING ANY HARVESTED MATERIAL) OR A HYBRID PRODUCED FROM THIS VARIETY BEEN SOLD, DISPOSED OF, TRANSFERRED, OR USED IN THE U. S. OR OTHER COUNTRIES?</b> <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO <i>Oct. 15, 2002</i>				<b>22. DOES THE OWNER SPECIFY THAT SEED OF THIS VARIETY BE LIMITED AS TO NUMBER OF GENERATIONS?</b> <input type="checkbox"/> YES <input type="checkbox"/> NO <small>IF YES, SPECIFY THE NUMBER 1,2,3, etc. FOR EACH CLASS.   <input type="checkbox"/> FOUNDATION <input type="checkbox"/> REGISTERED <input type="checkbox"/> CERTIFIED  <small>(If additional explanation is necessary, please use the space indicated on the reverse.)</small> </small>
				<b>24. IS THE VARIETY OR ANY COMPONENT OF THE VARIETY PROTECTED BY INTELLECTUAL PROPERTY RIGHT (PLANT BREEDER'S RIGHT OR PATENT)?</b> <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
<b>IF YES, YOU MUST PROVIDE THE DATE OF FIRST SALE, DISPOSITION, TRANSFER, OR USE FOR EACH COUNTRY AND THE CIRCUMSTANCES. (Please use space indicated on reverse.)</b>				
<b>25. The owners declare that a viable sample of basic seed of the variety has been furnished with application and will be replenished upon request in accordance with such regulations as may be applicable, or for a tuber propagated variety a tissue culture will be deposited in a public repository and maintained for the duration of the certificate.</b>  <small>The undersigned owner(s) is(are) the owner of this sexually reproduced or tuber propagated plant variety, and believe(s) that the variety is new, distinct, uniform, and stable as required in Section 42, and is entitled to protection under the provisions of Section 42 of the Plant Variety Protection Act.</small>				
Owner(s) is (are) informed that false representation herein can jeopardize protection and result in penalties.				
<b>SIGNATURE OF OWNER</b> 		<b>SIGNATURE OF OWNER</b> <small>NAME (Please print or type)</small>		
<small>NAME (Please print or type)</small> Timothy M. Ford		<small>NAME (Please print or type)</small>		
<b>CAPACITY OR TITLE</b> Research Agronomist		<b>DATE</b> 02/05/03 <i>Amended 10/15/06</i>		<b>CAPACITY OR TITLE</b> <small>DATE</small>

(See reverse for instructions and information collection burden statement)

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### Origin and Breeding History of Sonoma (A97-1323) Kentucky Bluegrass

Sonoma (A97-1323) Kentucky bluegrass (*Poa pratensis* L.) is a turf-type cultivar. It originated as a single, apomictic plant selected from the progeny of a cross between C-74 and Lakeshore Kentucky bluegrass. C-74 is a vigorous, apomictic plant that originated from a plant collected from an old turf area in Exeter, RI in 1987. This is similar in appearance and performance to Unique Kentucky bluegrass (Rose-Fricker et al., 1999). Lakeshore originated as a single, highly apomictic plant selected from the open-pollinated progeny of A80-336. A80-336 is an exceptionally vigorous, moderately apomictic F<sub>1</sub> hybrid selected from the progeny of the cross between Warren's A-25 x 'Touchdown' (Dale et al., 1975; Rewinski et al., 1978).

Typical plants of Lakeshore pollinated a plant of C-74 during the late winter of 1994-1995 in a greenhouse located on the Cook College campus of Rutgers University. Environmental conditions prior to and during pollination were modified to increase sexual reproduction of facultative apomictic Kentucky bluegrass (4,5,6). Seed from the C-74 female parent was harvested in the spring of 1995. Seedlings were seeded into a spaced -plant nursery in the spring of 1996. An attractive F<sub>1</sub> hybrid was identified as 96-2289-2. This was a medium-late maturing, above-average yielding plant compared to other Kentucky bluegrasses harvested from that nursery. In the fall of 1997, it was planted in a turf plot at Adelphia, New Jersey with the designation A97-1323. A97-1323 is 85% apomictic observed from seedling taken from the original turf plot. A97-1323 has good floret fertility and a seed head rating of 7 based on a 1-9 scale (9=most seed heads). Sonoma (A97-1323) was entered in the 2000 National Turfgrass Evaluation Program to be evaluated through out the US. Sonoma has average turf quality, medium green color,

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good winter color, and medium leaf texture (Morris and Shearman, 2001). Sonoma has exhibited good leaf spot resistance (caused by the fungus *Dreschlera poae* (Baudys) Shoemaker) and very good stem rust resistance (caused by the fungus *Puccinia graminis* Pers.:Pers.) (Morris and Shearman, 2001). Sonoma has exhibited moderate susceptibility to powdery mildew (caused by the fungus *Erysiphe graminis* DC) (Bonos et al. 2001). Seed of this selection was sent to Lebanon Turf Products for Breeder seed production.

#### References

- Bashaw, E.C. and C.R. Funk. 1987. Apomictic grasses. P. 40-82. In F. Lemaire (ed.) Proc. Int. Turfgrass Res. Conf. 5<sup>th</sup> Avignon, France. INRA Publ., Versailles.
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- Dale, M.R. M.K. Ahmed, G. Jelenkovic, and C.R. Funk. 1975. Characteristics and performance of interspecific hybrids between Kentucky bluegrass and Canada bluegrass. Crop Sci. 15: 797-799.
- Hintzen, J.J. and A.J.P. van Wijk. 1985. Ecotype breeding and hybridization in Kentucky bluegrass (*Poa pratensis* L.) p. 213-219. In F. Lemaire (ed.) Proc. Int. Turfgrass Res. Conf. 5<sup>th</sup> Avignon, France. INRA Publ., Versailles.

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2000. Progress Report 2001. National Turfgrass Evaluation Program. Beltsville,  
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Pepin, G.W. and C.R. Funk. 1971. Intraspecific hybridization as a method of breeding  
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Rewinski, T.F. , A.M. Radko, W.K. Wiley, M.C. Pick, and C.R. Funk. 1978. Registration  
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Rose-Fricker, C.A., M.L. Fraser, W.A. Meyer, and C.R. Skogley. 1999. Registration of  
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## ADDENDUM TO 'SONOMA' ORIGIN AND BREEDING HISTORY

The initial greenhouse selection of Sonoma was based on a dark color and freedom from powdery mildew. Subsequent selections were based on dark color, freedom from disease, mowing qualities, turf density, overall turf performance, excellent floret fertility, and high panicle production.

Sonoma has remained stable and uniform in both turf plots and as mature plants from Breeder seed, Foundation Seed and Certified seed. Additionally, because of the high degree of uniformity and stability the Oregon Seed Certification Service has allowed Certified to Certified production plantings and they have remained uniform and stable. Sonoma has remained stable and uniform through three generations. Through six years and three generations the turf performance under turf situations has remained stable and uniform. Additionally, Sonoma has remained stable and uniform in seed production fields.

It has been my observation as the breeder and field production manager that Sonoma is a very stable and uniform variety with no aberrant plants, no variants, and no off-types observed in turf, nurseries, or seed production fields. No variants have been observed since inception through the present. Sonoma is 99+% apomictic under normal field and turf conditions.

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**REVISED STATEMENT OF DISTINCTNESS**

Sonoma Kentucky bluegrass is most similar to Unique Kentucky bluegrass. However, Sonoma is significantly darker in genetic color than Unique (6.6 vs. 6.3), see NTEP data (Table 12). Unique has significantly finer leaf texture than Sonoma (6.9 vs. 6.0), see NTEP data (Table 14). Sonoma has significantly darker winter color than Unique (6.6 vs. 4.8), see NTEP data (Table 22).

In a trial near Hubbard, Oregon, Sonoma was very similar in heading date to Unique. However, Sonoma had a significantly higher flag leaf height, and a significantly longer flag leaf sheath than Unique both in data collected in 2001 and 2002 (see Hubbard, Oregon data given which follow immediately).

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Entry	Plant Height (cm)	Flag Leaf Height (cm)	Flag Leaf Sheath Length (cm)
Unique	69.4	32.4	9.9
America	72.9	39.2	11.7
Sonoma (LTP-1323)	76.5**	44.4**	12.2***
LTP-329	75.1	44.4	16.1
Bordeaux (LTP-1135)	73.0***	43.4**	12.1***
LSD (0.05)	3.3	3.1	0.8

\* = Significant compared to America

\*\* = Significant compared to America and Unique

\*\*\* = Significant compared to Unique

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2002 mean morphological measurements for entries in a Kentucky bluegrass seed yield trial seeded fall of 2000 near Hubbard, OR.

Entry	Flag Leaf						Tiller Leaf						Branches					
	Plant Height (cm)	Leaf Height (cm)	Flag Length (cm)	Sheath Length (cm)	Panicle Length (cm)	Length from Flag Leaf to Inflorescence (cm)	Length from Flag Leaf to Whorl (cm)	In Lowest Whorl (#)	Tiller Leaf Length (cm)	Leaf Width (mm)	Leaf Length (cm)	Flag Leaf Length (cm)	Leaf Width (mm)	Flag Leaf Length (cm)	Leaf Width (mm)	Tiller Count (#/12.7 cm Row)		
Bordeaux (LTP-1135)	75.4**	34.1**	10.7**	7.8**	9.9**	33.8**		3.5	6.7**	2.8**	4.8**	2.7*	2.7*			87.6**		
Sonoma (LTP-1323)	61.1**	29.1**	8.5	6.6	8.3*	29.3*		3.4*	5.0*	3.0*	3.5***	2.6*	2.6*			54.9		
Unique	57.0	23.4	8.5	5.2	8.1	30.6		3.5	5.6	3.1	4.0	2.7	2.7			70.1		
Midnight	56.8	28.2	9.1	7.0	8.0	27.2		3.6	6.7	3.7	4.1	2.7	2.7			49.3		
America	54.6	27.1	8.5	6.8	7.0	23.7		3.8	5.0	3.5	3.8	3.6	3.6			68.7		
LSD (0.05)	2.4	2.0	1.1	0.6	0.8	1.6		0.3	0.6	0.3	0.4	0.3	0.3			17.6		

\* = Significant compared to America

\*\* = Significant compared to America and Unique

\*\*\* = Significant compared to Unique

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2002 mean morphological measurements for entries in a single row Kentucky bluegrass seed yield trial seeded fall of 2001 near Hubbard, OR.

<u>Entry</u>	Flag Leaf				Tiller Leaf				Length from Flag Leaf to Top of Inflorescence (cm)				Branches			
	Plant Height (cm)	Flag Leaf Height (cm)	Panicle Length (cm)	Sheath Length (cm)	Tiller Leaf Length (cm)	Leaf Sheath Length (cm)	Leaf Length (cm)	Leaf Width (cm)	In Whorl (#)	Lowest Whorl (cm)	Leaf Length (cm)	Leaf Width (cm)	Flag Leaf Length (cm)	Flag Leaf Width (mm)	Flag Leaf Length (cm)	Tiller Count (#@12.7 cm Ro)
Bordeaux (LTP-1135)	64.4***	34.2***	11.0***	8.2***	9.1***	29.9	3.2***	10.7***	3.2***	29.3	3.8	6.1	1.9	5.2	2.0	33.8***
Unique	59.1	24.2	8.7	5.6	7.9	29.3										99.4
Sonoma (LTP-1323)	56.9	27.4***	9.1	8.0***	9.2***	30.8	3.5***	8.0***	3.0***	30.8	3.5***	8.0***	3.0***	5.1	2.5***	21.6***
Midnight	45.7	23.7	8.6	7.3	7.1	22.2	3.8	7.4	3.0	22.2	3.8	7.4	3.0	4.5	2.1	44.2
LSD (0.05)	2.3	2.1	0.7	0.6	0.5	1.8		0.3	0.7							
																8.5

\*\*\* = Significant compared to Unique

U.S. DEPARTMENT OF AGRICULTURE  
AGRICULTURAL MARKETING SERVICE  
LIVESTOCK, MEAT, GRAIN, & SEED DIVISION  
PLANT VARIETY PROTECTION OFFICE  
BELTSVILLE, MARYLAND 20705

### OBJECTIVE DESCRIPTION OF VARIETY BLUEGRASS (*Poa spp.*)

NAME OF APPLICANT(S) <i>(St: 7/18/2008)</i> Lebanon Seaboard Corporation	TEMPORARY DESIGNATION A97-1323&LTP-1323	VARIETY NAME Sonoma
ADDRESS (Street and No. or R.F.D. No., City, State, and Zip Code) P.O. Box 10 Huntsville, UT 84317	OFFICIAL USE ONLY	
	PVPO NUMBER <b>#200300157</b>	

Select the number which characterizes the variety in the features described below. For measured characteristics use leading zeros as necessary in order to fill all blanks (e.g., 019, 01811). Those characteristics marked with a star \* are preferred to be recorded. Any others should be recorded to help establish novelty or uniqueness. Characteristics described, including numerical measurements, should represent those that are typical for the variety. Measured data should be for SPACED PLANTS. Royal Horticultural Society or any recognized color fan may be used to determine plant colors; designate system used: Hubbard, OR 10 measurements/rep. Describe location of test area, conditions, and number of plants used: Hubbard, OR 10 measurements/rep.

## 1. SPECIES:

<input checked="" type="checkbox"/> 2	1 = <i>Poa compressa</i>	2 = <i>P. pratensis</i>	3 = <i>P. trivialis</i>	4 = Others (Specify) _____
<input type="checkbox"/>	Chromosome number			

## 2. ADAPTATION: (0 = Not tested, 1 = Not adapted, 2 = Adapted, 3 = Well adapted)

<input type="checkbox"/> 3	Northeast	<input checked="" type="checkbox"/> 2	Transitional zone	<input checked="" type="checkbox"/> 2	Southeast	<input type="checkbox"/> 2	North Central
<input type="checkbox"/> 3	Pacific N.W.	<input checked="" type="checkbox"/> 2	Intermountain	<input checked="" type="checkbox"/> 2	Southwest (CA., AZ.)		
Other (Specify) _____							

## 3. MATURITY (At first anthesis): Give test area \_\_\_\_\_

* <input checked="" type="checkbox"/> 3	1 = Very early	2 = Early (Delta, Mystic)	3 = Medium early (Fylking, Nugget)
	4 = Medium late (Newport, Adelphi, Aquila)	5 = Late (Merion, Baron, Edmund)	
	6 = Very late (Pacific)	Sonoma = 3.5	

## Date of First Anthesis

<input type="checkbox"/>	Number of days earlier than	*	<input checked="" type="checkbox"/> 1	}	1 = Nugget	2 = Fylking	3 = Delta
<input type="checkbox"/>	Maturity same as	*	<input checked="" type="checkbox"/> 4		4 = Merion	5 = Newport	6 = Baron
<input type="checkbox"/> 0	Number of days later than	*	<input checked="" type="checkbox"/> 7		7 = Mystic	8 = Sabre	9 = Reubens

## 4. PLANT HEIGHT (At maturity-Average of longest shoot of 10 plants from soil surface to top of panicle): Test area \_\_\_\_\_

* <input checked="" type="checkbox"/> 2	1 = Short (Nugget)	2 = Medium short (Baron, Fylking, Mystic)		
	3 = Medium tall (Merion, Adelphi)	4 = Tall (Delta)	5 = Very tall	
* <input type="checkbox"/> 6 1 1	cm Height (6 1 1)			
<input type="checkbox"/>	cm Shorter than	*	<input checked="" type="checkbox"/> 1	1 = Nugget
	Height same as	*	<input checked="" type="checkbox"/> 5	2 = Fylking
<input type="checkbox"/> 4 1	cm Taller than (4 1)	*	<input checked="" type="checkbox"/> 10	3 = Delta
				4 = Merion
				5 = Newport
				6 = Baron
				7 = Mystic
				8 = Sabre
				9 = Reubens
				10. Midnight

## 5. GROWTH HABIT:

* <input checked="" type="checkbox"/> 2	Habit: 1 = Prostrate (Nugget)	2 = Semi-prostrate (Merion)	3 = Erect (Delta)
	tiller count = 5 4.9 tillers per 12.7 cm row		
	cm Amount of spread by rhizomes in 1 year (give test area) _____		

## 6. LEAF BLADE:

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<input checked="" type="checkbox"/> 4	Green Color:	1 = Light green (Mystic)	2 = Medium green (Fylking, Bonnieblus)
		3 = Moderately dk. green (Merion, Adelphi)	4 = Very dk. green (Nugget, Glade, Enmundi)
<input checked="" type="checkbox"/> 1	Bluegreen color:	1 = Not bluegreen (Mystic, Touchdown, Parade)	2 = Moderately bluegreen (Merion, A-34)
		3 = Bluegreen (Nugget, Enmundi, Adelphi)	4 = Strongly bluegreen (Majestic)
<input checked="" type="checkbox"/> 2	Winter color:	1 = Light green	2 = Dark green
		4 = Dark purple	5 = Not purple
<input checked="" type="checkbox"/> 2	Hairs upper side:	1 = Absent (Nugget)	2 = Sparse (Merion)
			3 = Dense (Park)
<input checked="" type="checkbox"/> 2	Hairs lower side:	1 = Absent (Fylking, Merion)	2 = Sparse
			3 = Dense (Nugget)
<input checked="" type="checkbox"/> 1	Luster upper side:	1 = Shiny (Eclipse, Enmundi)	2 = Dull (Aquila, Parade)
<input checked="" type="checkbox"/> 2	Luster lower side:	1 = Shiny (Mystic, Enmundi)	2 = Dull (Barbie, Eclipse)
<input checked="" type="checkbox"/> 2	Margin hairs (Fringe on Margin or Base):	1 = Absent (Delta)	2 = Present (Fylking, Merion)
<input checked="" type="checkbox"/> 3	Width:	1 = Very fine (Mystic)	2 = Fine (Nugget)
		4 = Broad (Adelphi, Baron)	5 = Very broad (Monopoly)
<input checked="" type="checkbox"/> 2 8	mm Width (flag leaf)	( 2 . 8 )	
<input checked="" type="checkbox"/> 8	mm Narrower than ( . 8 )	1 1	1 = Nugget
		10	2 = Fylking
	Width same as	*	3 = Delta
<input checked="" type="checkbox"/>	mm Wider than	10	4 = Merion
			5 = Newport
<input checked="" type="checkbox"/> 3 5	mm Length (flag leaf)		6 = Baron
<input checked="" type="checkbox"/> 6	mm Shorter than	10	7 = Mystic
			8 = Sabre
	Length same as	*	10. Midnight
<input checked="" type="checkbox"/>	mm Longer than	10	11. America
<input checked="" type="checkbox"/> 2	Position of flag leaf (angle to stem):	1 = Appressed	1 = Nugget
			2 = Fylking
			3 = Delta
			4 = Merion
			5 = Newport
			6 = Baron
			7 = Mystic
			8 = Sabre
			9 = Reubens
			10. Midnight
			3 = Nodding

## 7. LEAF SHEATH:

<input checked="" type="checkbox"/> 6 6	mm sheath length		
<input checked="" type="checkbox"/> 1	Seedling Color (base of sheath):	1 = Green (Nugget, Merion)	2 = Red (Delta)
<input checked="" type="checkbox"/> 2	Hairs on Margin:	1 = Absent (Fylking)	2 = Present (Nugget)
<input checked="" type="checkbox"/> 1	Margin Roughness (to touch):	1 = Smooth (Delta)	2 = Rough (Sabre)
<input checked="" type="checkbox"/> 2	Hairs on Surface:	1 = Absent ( )	2 = Present (Nugget)
<input checked="" type="checkbox"/> 1	Surface Roughness (to touch):	1 = Smooth (Fylking)	2 = Rough (Ram I)
<input checked="" type="checkbox"/> 2	Hairs on both sides just beneath leaf blade (under collar):	1 = Absent (Merion)	2 = Present (Nugget)
<input checked="" type="checkbox"/> 2	Hairs on Ligule:	1 = Absent (Fylking)	2 = Short (Baron)
<input checked="" type="checkbox"/> 1	Glaucosity:	1 = Absent (Mystic, Enmundi)	2 = Present (Birka)
<input checked="" type="checkbox"/> 2	Keel:	1 = Absent (Ram I)	2 = Present (Adelphi)

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#### **8. PANICLE (Mature Plant):**

8	3	mm Length (Lowest branch whorl to top, for 10 plants)	Test area: <u>near Hubbard, OR PST</u>
		mm Shorter than *	
		*	
		mm Longer than *	
1	3	mm Longer than 10	
★	1	Color (at 50% flowering): 1 = Not red (Fylking)	2 = Red (Nugget)
1	1	Shape of Rachis (opposite lower side branches):	1 = No bend (Nugget) 2 = Bend (Merion)
★	1	Collar:	1 = Opened (Nugget) 2 = Closed (Merion)
★	1	Branches Attitude (Lowest whorl):	1 = Drooping (America, Prato) 2 = Horizontal (Merion)
3	4	Number of main branches in lowest whorl 3, 4	
★	2	Panicle Habit: 1 = Nodding (Newport)	2 = Upright (Nugget)
★	2	Panicle Type: 1 = Open	2 = Intermediate 3 = Compact
2	2	Anther color (anthesis): 1 = Purple	2 = Yellow 3 = Brown

## 9. LEMMA

A	2	Keel	1 = Glabrous	2 = Slightly pubescent	3 = Pubescent
*	1	Marginal Nerves			
2	Intermediate Nerves:	1 = Distinct	2 = Obscure		
2	Basal Webbing:	1 = Absent	2 = Scant (Baron)	3 = Copious (Marion)	

10. SEED: {Floret-not dehulled}

 <b>1</b> <input type="checkbox"/>	Apomixis Percentage:	1 = more than 95	2 = 85 to 95	3 = less than 85
	Phenol Reaction:	1 = none-lemma removed (Merion)	2 = Beige (Cougar)	3 = Brown (Windsor)
		4 = Black (Mystic-2 hrs)	5 = Black 1	-24 hours
	mm. Width (average of 10)		mm Length 2 . 2	
	3 3 5 2			
	Milligrams per 10,000 seed			
	Milligrams less than		1 = Nugget	2 = Fylking
	*		3 = Delta	
	*		4 = Merion	5 = Newport
	*		6 = Baron	
	Weight same as		7 = Reubens	8 = Sabre
	*		11 = America	
	Milligrams more than		1 = Light (< 3g Sydport, Merion)	
2	Weight Class (g per 10,000 seed):		2 = Medium (3g - 4g Adelphi, Parade)	
			3 = Heavy (> 4g Fylking, Nugget)	

11. ENVIRONMENTAL RESISTANCE: (0 = Not tested; 1 = Very susceptible; 2 = Moderately susceptible; 3 = Moderately resistant; 4 = Highly resistant)

<input checked="" type="checkbox"/> 4 Cool Temperature (Winter color)	<input checked="" type="checkbox"/> 3 Cold (injury)	<input checked="" type="checkbox"/> 3 Heat	<input checked="" type="checkbox"/> 3 Drought
<input checked="" type="checkbox"/> 3 Shade	<input checked="" type="checkbox"/> 3 Low Fertility	<input checked="" type="checkbox"/> 0 Acid Soil ( $\text{pH} < 5.5$ )	<input checked="" type="checkbox"/> 0 Alkalinity ( $\text{pH} > 7.5$ )
<input checked="" type="checkbox"/> 0 Salinity	<input checked="" type="checkbox"/> 0 Soil Compaction	<input checked="" type="checkbox"/> 0 Poor Drainage	<input checked="" type="checkbox"/> 0 Air Pollution
<input type="checkbox"/> Other (Specify) _____			

**12. DISEASE RESISTANCE:** (0 = Not tested, 1 = Very susceptible, 2 = Moderately susceptible, 3 = Moderately resistant, 4 = Highly Resistant)

★	0	Melting-Out Drechslera pose ( <i>Helminthosporium vagans</i> )	0	Sclerotina Patch <i>S. borealis</i>
★	3	Helminthosporium Leaf Spot <i>Bipolaris sorokiniana</i>	3	Stem Rust <i>Puccinia graminis</i>
	3	Brown Patch <i>Rhizoctonia solani</i>	3	Stripe Rust <i>P. striiformis</i>
†	3	Powdery Mildew <i>Erysiphe graminis</i>	3	Leaf Rust <i>P. pose-nemoralis</i>
★	4	Stripe Smut <i>Ustilago striiformis</i>	0	Orange Stripe Rust <i>P. poae</i>

## 12. DISEASE RESISTANCE (Continued)

#200300157

<input type="checkbox"/> n	Flag Smut <u>Urocystis agropyri</u>	<input type="checkbox"/> 0	Pythium Blight <u>Pythium spp.</u>
<input type="checkbox"/> 3	Pink Snow Mold <u>Fusarium niveale</u>	<input type="checkbox"/> 0	Red Thread <u>Corticium luciforme</u>
<input type="checkbox"/> 3	Ergot <u>Claviceps purpurea</u>		Other _____
* <input type="checkbox"/> 2	Fusarium Blight <u>Fusarium roseum, F. tricinctum</u>		Other _____
<input type="checkbox"/> 2	Typhula Blight <u>Typhula spp.</u>		
<input type="checkbox"/> 2	Dollar Spot <u>Sclerotinia homoeocarpa</u>		

## 13. INSECTS, NEMATODES, RESISTANCE: (0 = Not tested; 1 = Very susceptible; 2 = Moderately susceptible; 3 = Moderately resistant; 4 = Highly resistant)

<input type="checkbox"/> 0	Chinch Bug <u>Blissus spp.</u> (give species: _____)
<input type="checkbox"/> 0	Sod Webworm <u>Crambus spp.</u> (give species: _____)
<input type="checkbox"/> 0	Bluegrass Billbug <u>Sphenophorus parvulus</u> _____
<input type="checkbox"/> 0	White Grub (Japanese Beetle, Chafers, (give species: _____)
<input type="checkbox"/> 0	Greenbug Aphid <u>Schizaphis graminum</u>
<input type="checkbox"/>	Other _____
<input type="checkbox"/>	Other _____

14. Give variety or varieties that most closely resemble the application variety. For the following characteristics indicate Degree of Resemblance by placing in the column marked D.R., one of the following numbers: 1 = Application variety is less than comparison variety; 2 = Same as; 3 = More than, better, greater, darker, more disease resistant, etc.

CHARACTER	VARIETY	D.R.	CHARACTER	VARIETY	D.R.
Maturity-heading	Unique	2	Leaf width	Midnight	2
Height	Unique	2	Leaf color spring	Rita	2
Seed size	America	2	Leaf color summer	Rita	2
Seed weight	America	2	Leaf color winter	Langara	2
Cold injury	America	2	Drought	Unique	2
Heat	Unique	2	Disease * *		
Shade	Unique	2	leaf spot	Unique	2

\*\* Specify each disease evaluated.

## 15. ADDITIONAL DESCRIPTION:

Describe all characteristics and conditions that cannot be adequately described in this form in Exhibit D.

#200300157

Mean initial heading dates for entries in a Kentucky bluegrass seed yield trial seeded fall of 2000 near Hubbard, OR.

Entry	2001	2002
Unique		
Sonoma (LTP-1323)	05 May	02 May
America	03 May*	01 May*
Bordeaux (LTP-1135)	23 April	26 April
	28 April	26 April
LSD (0.05)	7 days	4 days

2002 mean initial heading dates for entries in a single row Kentucky bluegrass seed yield trial seeded fall of 2001 near Hubbard, OR.

Entry	2002
Midnight	
Sonoma (LTP-1323)	14 May
Bordeaux (LTP-1135)	7 May
Unique	6 May
Nugget	4 May
LSD (0.05)	4 May
	7 days

\* = Significant compared to America

\*\* = Significant compared to America and Unique

\*\*\* = Significant compared to Unique

TABLE 12.

GENETIC COLOR RATINGS OF KENTUCKY BLUEGRASS CULTIVARS  
2001 DATA

NAME	CO1	TA1	TL2	IL3	IN1	KY1	MA1	MD1	ME1	MI1	MO1	NC1	NE1	NE2	NJ1	NJ2	NY1	OH1	OK1	PA1	RI1	SD1	UT1	VA1	WA1	WA3	WI1	MEAN
BA 84-140	7.0	8.7	7.7	8.3	7.7	8.0	9.0	9.0	9.0	7.7	7.3	7.7	9.0	9.0	7.7	7.7	6.0	8.7	9.0	8.7	8.0	7.7	7.0	6.7	9.0	7.0	6.0	7.9
MOONLIGHT	8.0	8.0	8.0	8.0	7.3	9.0	7.0	7.3	9.0	7.7	8.3	7.7	8.0	8.7	7.7	7.7	6.0	8.7	8.0	8.3	7.0	7.3	7.7	6.7	6.0	7.8	7.3	6.7
CHICAGO II	7.3	8.3	8.3	8.0	7.0	7.3	8.0	8.3	8.0	9.0	6.7	7.3	7.7	8.3	8.3	8.0	7.3	6.0	9.0	8.7	8.7	8.0	7.3	6.7	7.0	7.3	6.7	7.7
IB7-308	6.3	8.3	8.0	7.0	7.0	9.0	7.0	8.0	9.0	6.3	6.7	8.0	8.7	8.0	8.3	8.0	6.3	8.7	8.0	9.0	7.0	7.0	7.0	6.7	9.0	7.0	6.0	7.6
PST-B5-89	7.3	8.3	8.3	8.3	7.3	8.7	6.3	8.0	9.0	7.0	6.7	7.3	8.0	8.0	8.0	8.7	5.7	8.7	8.0	8.7	7.3	6.0	7.0	7.0	8.7	7.0	5.7	7.6
BLUE RIDGE (A97-1449)	7.3	8.0	6.3	6.3	7.7	9.0	7.0	8.7	8.0	7.0	7.7	7.0	7.7	8.3	6.7	8.7	5.7	8.0	7.7	7.7	8.0	7.3	7.0	8.7	7.0	6.3	7.4	
QUANTUM LEAP	7.7	8.3	8.0	6.0	7.0	9.0	6.7	8.0	8.7	7.3	7.0	6.3	8.0	7.7	7.7	6.3	6.0	8.0	8.3	7.7	8.7	6.3	6.3	8.3	7.0	6.3	7.4	
AWARD	7.7	8.3	7.0	6.3	6.7	9.0	6.7	7.7	8.7	7.7	7.3	7.7	7.3	7.3	6.7	6.0	6.0	8.3	8.3	6.7	7.7	6.0	6.3	9.0	7.0	6.7	7.3	
PST-222	7.0	8.0	5.3	7.7	7.3	9.0	6.7	8.0	8.7	7.0	6.3	7.3	7.7	7.7	7.0	6.0	8.0	8.0	7.7	7.7	6.7	6.3	6.3	9.0	7.0	6.7	7.3	
J-1513	7.0	8.7	8.0	5.7	7.0	9.0	6.3	7.0	8.7	7.7	7.3	7.0	7.7	7.7	7.0	6.0	8.0	8.0	7.7	7.7	6.7	6.3	6.7	9.0	6.7	5.7	7.3	
J-2390	6.3	8.3	8.7	5.7	7.0	9.0	6.0	7.3	9.0	7.0	6.7	6.0	7.0	8.0	7.7	6.0	6.0	8.0	8.0	7.7	8.3	6.3	6.0	8.3	7.0	7.0	7.3	
BOONERANG	7.0	8.3	7.0	6.7	7.0	7.7	7.3	7.7	8.0	6.7	6.0	7.0	8.0	7.0	7.0	6.3	7.3	8.0	8.0	7.0	8.0	7.0	6.7	8.7	5.7	6.0	7.2	
BAR PP 0566	6.7	8.3	5.7	7.3	8.0	6.3	8.0	8.7	7.3	7.7	7.7	8.3	7.0	7.0	7.7	7.7	6.0	7.3	8.0	7.3	7.3	7.0	6.7	5.3	8.0	6.7	6.0	7.2
BLUESTONE (PST-731)	7.7	8.3	8.0	5.3	6.3	8.7	6.3	7.7	7.7	7.0	7.7	6.0	7.7	8.0	7.3	5.3	7.7	8.0	8.7	7.7	8.0	6.7	7.0	7.7	7.0	7.0	7.3	
IMPACT	8.0	8.0	7.3	4.3	6.7	9.0	6.3	7.7	8.3	7.3	7.3	6.7	8.0	8.3	7.0	6.3	6.0	8.0	8.0	8.0	7.0	7.3	5.7	6.0	9.0	7.3	6.0	7.2
J-1515	6.7	8.3	7.7	6.0	6.3	8.7	6.7	7.0	8.7	7.3	8.0	6.7	7.7	7.0	7.7	6.0	6.0	8.3	8.3	8.0	7.7	5.7	6.7	9.0	7.7	6.3	7.2	
J-1838	6.3	8.0	6.7	6.0	7.0	9.0	6.7	7.3	8.7	7.0	7.7	6.3	7.3	8.3	7.3	6.0	6.0	7.7	8.0	7.7	7.3	6.0	6.7	8.3	7.3	6.3	7.2	
RUGBY II	8.0	8.0	7.0	5.3	7.0	8.7	6.7	7.7	8.7	7.3	7.3	5.3	7.7	7.7	7.7	5.0	6.0	8.0	8.7	7.0	8.0	5.7	6.7	8.7	7.7	7.0	7.2	
BARRISTER (J-1655)	6.3	8.3	8.0	5.7	7.0	9.0	6.7	7.0	8.7	7.3	8.0	6.3	7.7	7.3	7.0	6.0	5.7	8.3	8.0	7.3	7.7	5.3	5.3	9.0	7.0	6.3	7.2	
BLACKSTONE	8.0	5.7	6.3	6.7	7.0	9.0	6.3	7.3	8.7	7.7	7.7	6.7	8.0	7.3	6.3	6.7	6.0	8.3	7.3	6.7	7.3	6.0	6.7	9.0	6.3	6.3	7.2	
J-1420	7.3	8.3	7.3	5.7	6.3	9.0	6.3	7.3	8.7	7.0	7.3	7.0	7.7	7.3	7.0	6.3	6.0	7.0	7.3	7.0	7.3	5.3	6.0	6.7	8.3	7.3	6.7	7.2
MIDNIGHT	8.0	8.0	7.3	5.0	6.3	8.3	6.0	8.0	8.7	7.0	7.3	7.0	7.7	7.3	7.0	6.3	5.7	8.0	8.3	7.3	8.3	6.7	6.0	8.7	7.7	7.0	7.2	
A97-1409	5.7	8.0	7.7	7.7	7.0	8.7	7.0	7.7	8.3	7.0	6.3	8.3	7.0	7.0	6.7	7.3	4.7	7.3	7.7	7.3	7.7	6.3	6.7	8.7	7.0	6.7	7.1	
EVEREST	7.0	8.0	7.0	4.7	7.0	9.0	6.7	7.3	8.7	7.7	7.3	6.3	7.7	8.0	7.3	6.0	6.0	7.7	8.0	8.0	7.7	6.3	7.3	8.7	7.0	6.0	7.2	
EVERGLADE	7.0	8.0	7.7	4.7	6.7	9.0	6.3	7.3	8.3	7.0	7.3	5.7	7.3	7.7	7.7	6.0	5.7	8.0	8.3	7.7	7.7	6.3	6.7	9.0	6.3	6.3	7.2	
MIDNIGHT II (A98-739)	5.0	8.7	7.7	6.7	6.3	9.0	6.0	8.0	8.7	6.7	6.7	6.3	7.7	7.7	7.3	5.7	6.0	8.0	8.3	8.0	7.7	5.3	6.0	6.7	8.3	7.3	6.7	7.2
J-1368	7.0	8.3	8.3	5.3	6.3	8.7	6.3	7.3	8.3	6.7	7.0	6.7	7.7	7.7	8.3	6.0	6.0	8.0	7.7	8.0	7.7	6.3	6.7	8.7	7.0	6.7	7.1	
A98-407	5.7	8.0	6.3	5.0	7.0	8.0	6.7	7.7	7.9	6.3	6.3	8.3	8.0	7.7	7.7	7.7	6.0	7.7	8.0	8.7	8.0	7.0	6.3	6.0	8.3	7.0	5.3	7.1
BLUE KNIGHT	7.0	8.3	5.3	5.7	7.0	7.3	7.3	8.0	8.3	7.0	7.3	7.0	8.0	8.0	6.7	6.7	5.7	8.0	8.0	7.3	8.0	5.7	6.3	7.3	8.3	6.7	6.0	7.1
EXCURSION (J-1648)	7.0	8.0	7.0	5.7	7.0	9.0	7.0	7.0	8.7	7.0	6.7	6.3	7.7	7.3	7.3	6.0	5.7	8.0	8.3	7.0	7.0	5.3	6.0	6.3	9.0	7.0	6.7	7.1
J-2561	6.7	8.3	7.3	5.0	6.7	8.7	6.3	7.3	8.0	7.0	7.3	6.7	7.7	7.7	7.3	6.0	5.7	7.7	8.0	7.7	7.6	6.3	6.7	8.3	7.3	6.7	7.1	
NA-K991	7.0	8.0	6.3	6.0	7.3	7.7	7.0	8.0	9.0	6.3	7.0	6.0	7.7	7.7	6.3	8.0	6.0	8.0	6.0	8.3	7.0	6.3	8.3	7.0	6.3	7.0	7.1	
J-2695	7.0	8.7	7.3	5.0	7.0	9.0	6.7	7.0	8.7	7.0	7.0	6.7	7.7	7.7	6.7	5.3	6.0	8.0	8.0	7.7	7.7	6.3	6.3	8.0	7.0	6.3	7.1	
BEYOND (J-1880)	6.0	8.0	7.3	5.3	6.7	8.3	5.7	7.3	8.7	7.3	6.7	7.0	7.3	7.3	7.3	5.3	5.7	7.7	8.3	7.7	7.7	5.3	6.7	8.7	7.0	6.7	7.1	
PST-604	7.7	8.0	5.7	8.3	7.3	8.0	6.3	7.3	8.7	6.0	7.3	6.7	8.0	7.3	7.0	7.7	6.0	8.0	8.0	6.7	7.0	5.0	6.0	6.3	8.0	6.7	6.3	7.1
FREEDOM II	7.0	8.3	6.7	7.3	6.7	8.0	6.7	7.7	8.3	7.7	7.3	7.7	7.0	7.7	7.3	5.7	6.0	8.0	7.7	7.7	7.0	6.0	8.0	7.7	6.3	7.3	7.1	
ARCADIA	7.3	8.0	7.0	4.0	6.7	9.0	6.0	7.0	7.9	7.0	7.3	6.7	7.3	7.3	6.7	5.7	6.0	8.0	8.0	7.3	7.3	5.3	6.3	8.7	7.0	5.0	7.1	
UNKNOWN	6.3	8.7	7.0	5.7	6.3	8.0	6.3	7.7	8.7	7.0	7.3	6.3	7.7	7.7	7.3	5.7	5.7	7.7	8.3	7.7	7.7	5.3	6.7	8.7	6.7	6.3	7.0	
TOTAL ECLIPSE	8.0	8.0	6.7	4.3	6.0	8.7	6.3	7.7	9.0	8.0	7.7	5.7	7.3	7.7	7.3	5.3	5.7	7.3	7.7	7.7	7.0	6.3	8.7	6.7	7.0	7.0		
TSUNAMI (J-2487)	7.0	8.7	7.0	4.7	6.7	9.0	6.0	7.3	8.3	7.0	7.0	5.7	7.3	7.3	7.0	5.7	6.0	8.0	8.0	7.7	7.0	5.7	8.3	6.7	7.0	7.0		
A97-1432	5.3	9.0	6.0	6.3	6.7	8.7	6.0	7.7	7.7	7.0	7.0	7.0	7.7	7.7	6.7	5.7	5.7	7.7	8.0	7.0	6.7	5.0	8.0	6.7	6.0	7.0		
MALLARD (A97-1439)	6.7	8.0	6.0	6.0	7.0	8.7	6.3	7.7	9.0	7.3	7.0	6.3	7.7	7.7	6.3	6.0	5.0	7.3	8.0	6.7	7.0	6.7	6.0	6.7	6.0	7.0		
A98-365	5.3	8.0	6.0</																									

TABLE 12. (CONT'D)

GENETIC COLOR RATINGS OF KENTUCKY BLUEGRASS CULTIVARS 1/  
2001 DATA

GENETIC COLOR RATINGS 1-9; 9=DARK GREEN 2/

NAME	CO1	TA1	TL2	IL3	IN1	KY1	MA1	MD1	M11	MO1	NC1	NE1	NE2	NJ1	NJ2	NY1	OH1	OK1	PA1	RI1	SD1	UT1	VA1	WA1	WA3	WI1	MEAN	
BH 00-6003	6.3	8.0	7.3	6.0	7.0	9.0	6.7	7.7	8.7	6.7	5.7	6.7	7.7	8.0	6.7	6.3	5.7	7.0	7.0	6.0	6.0	8.7	5.7	5.7	7.0			
BOUTIQUE	7.3	8.3	5.3	6.7	6.0	7.7	6.3	7.3	9.0	7.0	7.0	7.3	7.3	6.3	6.0	8.7	8.0	7.0	6.3	5.0	6.7	7.7	6.7	6.0	7.0			
BORDEAUX	7.0	8.0	6.0	6.3	6.7	9.0	6.7	8.0	9.0	9.0	6.7	6.7	8.0	7.3	6.7	5.3	6.0	7.7	6.0	6.0	6.3	6.3	8.7	6.7	6.0	6.9		
J-2885	6.7	8.0	7.7	5.7	8.7	6.7	7.7	7.0	7.3	6.7	6.0	7.7	8.0	7.0	5.3	5.7	8.3	8.0	7.0	7.3	6.0	6.0	7.7	6.3	7.0	6.9		
NA-R992	6.7	8.0	7.3	6.3	6.7	9.0	6.3	7.3	8.3	7.0	6.0	7.3	7.3	5.7	7.0	6.0	8.0	7.0	6.3	6.0	6.0	6.7	8.7	5.3	6.0	6.9		
SRX 2394	6.3	8.0	5.3	6.7	6.0	8.0	6.3	7.0	8.7	7.0	6.3	7.7	7.0	7.3	6.3	6.0	8.0	8.0	6.3	6.0	6.7	8.7	5.3	6.0	6.9			
BLACKSBURG II (PST-1EMY)	7.7	8.0	6.7	4.7	7.0	9.0	6.3	8.0	7.3	6.7	7.0	7.0	7.0	7.7	6.0	7.0	5.7	7.3	7.3	6.0	7.0	6.0	6.3	7.7	6.3	6.0	6.9	
NUGGLADE	8.0	8.0	6.0	4.3	6.3	8.7	6.0	7.3	8.3	8.0	7.7	6.3	7.3	6.7	6.3	5.0	5.7	8.0	8.0	6.0	7.0	5.3	6.7	8.7	6.7	6.7	6.9	
PICK-232	6.3	8.0	6.0	8.3	6.3	9.0	6.3	7.3	8.3	7.3	7.0	6.7	7.3	7.7	7.3	5.0	6.0	7.0	8.0	6.3	6.3	5.7	6.7	5.0	8.0	6.0	6.9	
MOON SHADOW (PICK 113-3)	7.7	8.7	7.3	8.0	6.7	9.0	4.7	7.3	9.0	6.3	5.7	6.3	6.3	7.0	5.3	6.0	6.0	7.7	7.7	6.3	7.0	6.3	7.0	5.0	8.3	6.0	6.9	
A96-451	5.7	8.0	6.0	5.7	6.0	8.3	6.7	8.0	8.7	7.3	6.7	7.3	7.0	7.0	6.7	7.3	6.0	8.0	7.7	7.0	6.3	5.3	6.3	4.7	8.3	6.3	6.8	
A98-183	5.0	8.0	7.7	5.0	7.0	9.0	4.3	7.0	9.0	6.7	6.0	7.0	7.7	7.0	6.7	7.3	5.3	7.3	7.7	8.0	7.3	6.3	6.0	7.7	6.0	6.0	6.8	
ODYSSEY	7.7	8.3	4.0	6.0	6.3	8.3	6.0	7.0	8.7	7.0	6.7	6.3	7.3	7.0	6.3	5.3	6.0	8.0	8.0	7.0	8.0	5.0	6.3	8.3	6.3	6.3	6.8	
A96-739	6.0	8.0	5.7	7.0	7.0	8.7	6.0	6.3	8.7	7.0	6.0	6.3	7.3	7.0	6.3	6.0	5.3	7.7	8.3	6.7	7.0	6.3	5.7	8.3	7.0	6.0	6.8	
MONT CARLO (A96-402)	6.3	8.0	6.0	6.7	6.0	7.3	6.7	7.0	8.7	7.0	6.3	6.3	6.7	7.0	7.3	7.7	6.3	6.3	7.7	7.7	6.3	7.3	5.3	6.0	6.0	6.8		
BA 83-113	7.7	8.0	6.0	5.3	6.7	8.7	5.3	7.7	8.3	7.0	6.3	6.3	7.0	7.0	6.0	6.7	6.0	7.7	7.7	6.3	7.3	5.7	5.3	7.7	7.7	6.0	6.8	
LIBERATOR	8.0	8.0	5.0	4.3	6.0	8.7	5.3	7.0	8.0	6.7	7.0	7.0	7.0	7.0	6.0	5.3	5.7	8.0	8.0	6.7	8.0	5.7	6.3	8.3	6.7	6.3	6.8	
BA 00-5001	7.0	8.3	4.7	6.7	6.3	9.0	6.0	7.0	8.3	6.7	6.3	7.0	6.7	7.0	6.0	4.7	5.7	7.7	8.0	7.3	7.0	6.0	6.3	8.0	6.0	6.0	6.8	
BODACIOUS	7.0	8.0	6.0	5.7	6.0	7.3	6.3	7.7	8.0	6.7	5.7	5.3	7.7	8.3	6.7	6.3	6.3	8.3	7.7	6.7	7.7	6.0	5.0	8.3	6.0	5.3	6.8	
BAR PP 0573	6.7	8.0	5.0	6.3	6.3	8.3	4.3	7.7	8.3	6.7	7.3	6.3	7.0	7.7	5.3	5.3	6.3	8.0	7.7	6.7	7.3	5.3	5.7	8.0	6.0	6.0	6.8	
A97-1715	5.7	8.0	8.0	5.7	6.0	9.0	5.3	7.3	8.0	7.0	6.7	8.0	7.3	7.0	6.0	5.3	5.7	8.0	8.0	6.7	7.0	5.0	6.0	7.7	6.7	6.0	6.7	
PICK 453	6.7	8.0	6.3	5.7	6.3	8.0	5.7	7.3	8.0	7.0	6.3	6.3	7.3	7.3	7.7	7.0	6.0	7.3	7.3	5.7	6.3	6.0	6.0	5.3	8.0	6.0	6.3	6.7
PICK 417	6.3	8.0	6.0	4.7	6.0	7.7	6.0	7.0	8.0	7.0	6.7	7.0	7.0	7.3	7.0	7.3	5.3	5.3	7.7	7.7	5.7	6.3	6.0	6.0	8.3	6.0	6.3	6.7
H92-558	6.0	8.3	6.3	4.7	7.0	8.0	5.7	7.7	8.0	6.7	7.0	7.0	7.3	7.7	7.0	6.7	6.7	7.3	7.7	6.7	7.0	6.0	6.3	8.3	6.0	5.3	6.8	
PP H 7907	6.7	8.0	5.3	5.7	6.3	7.3	6.3	7.0	8.0	7.0	6.7	7.0	7.3	7.3	6.0	5.7	5.7	8.3	7.3	6.3	7.3	5.7	5.7	8.0	6.0	6.3	6.7	
SR 2284 (SRX 2284)	6.7	8.0	4.7	7.7	6.3	8.3	5.3	6.3	8.0	7.3	6.3	8.0	6.0	7.0	7.0	6.0	6.7	5.7	7.7	7.7	5.7	7.0	5.0	6.0	7.0	6.0	6.7	
BA 82-288	7.7	8.0	5.3	5.3	6.3	8.0	5.3	7.0	8.3	7.7	6.3	6.7	7.3	7.0	7.0	6.0	5.7	6.3	8.0	7.3	4.7	7.3	5.0	6.7	6.0	6.3	6.6	
PST-BE-125	7.3	8.0	5.0	5.7	6.0	8.3	4.3	7.0	8.7	7.3	6.3	6.7	6.7	7.3	5.7	6.0	5.7	7.7	8.0	6.7	6.7	5.3	7.3	6.0	6.0	7.7	6.0	6.6
SONOMA	6.3	8.0	5.7	5.3	6.3	8.7	5.0	7.3	8.7	6.7	6.0	7.0	7.3	7.0	6.7	6.0	6.0	8.0	7.7	5.3	6.0	5.7	6.3	8.3	5.7	6.3	6.7	
GOLDSTAR (A98-296)	7.0	8.0	5.3	5.0	6.7	8.3	5.7	7.7	8.3	7.0	5.3	6.0	7.0	7.0	7.3	6.0	6.7	5.7	8.0	7.0	5.7	5.7	7.7	6.0	5.7	6.7	6.7	
FST-161	6.7	8.0	5.7	8.0	6.0	8.7	4.0	7.3	7.3	7.3	6.0	7.0	7.0	7.0	6.0	5.7	6.3	8.0	7.0	5.7	6.0	5.7	6.0	5.3	8.0	5.3	6.3	6.6
RITA	6.3	8.3	6.0	5.0	6.7	9.0	6.0	7.7	8.3	7.0	5.3	6.0	7.3	6.7	5.3	6.0	6.0	7.7	7.7	4.3	6.7	5.7	6.0	6.7	8.7	6.0	6.0	6.6
ARROW (A97-1567)	6.0	8.0	4.7	5.0	6.3	9.0	4.3	7.3	8.3	7.0	6.7	5.7	7.0	7.7	6.0	5.7	6.0	8.0	7.7	6.7	6.3	6.0	5.7	8.3	6.0	6.0	6.6	
BARONETTE (BA 81-058)	7.0	8.0	5.7	4.7	6.0	9.0	6.3	7.0	8.7	7.0	7.0	6.0	7.0	6.7	6.0	6.3	6.0	7.3	7.7	5.7	5.3	5.7	6.7	7.0	5.7	6.0	6.6	
BEDAZZLED	6.0	7.0	4.3	6.0	6.7	8.3	5.7	7.0	8.7	7.0	7.3	6.3	6.7	6.7	5.3	4.7	6.7	8.0	8.0	6.3	6.7	5.3	6.0	7.3	6.0	6.0	6.7	
EST-YORK HARBOR 4	7.3	8.3	4.0	6.0	6.3	8.7	4.7	7.7	8.3	7.0	6.0	6.0	7.0	6.7	6.0	6.7	5.0	6.0	7.0	6.0	6.7	5.7	6.3	5.3	8.0	6.7	6.3	6.6
PST-B3-170	6.7	8.0	3.3	6.3	6.3	8.0	4.3	7.3	8.3	7.0	6.3	7.0	7.0	7.3	5.0	6.0	5.7	7.0	7.7	6.0	6.0	5.7	7.7	6.0	6.0	5.7	7.7	6.5
ROYALE (A97-1336)	6.3	7.7	5.7	5.3	6.0	8.3	5.3	6.7	9.0	7.0	6.0	6.7	7.0	7.3	5.7	4.0	6.3	7.0	7.3	6.3	6.7	5.3	4.7	7.0	8.3	5.3	6.0	6.5
ASCOT	7.0	8.0	5.0	5.7	6.3	7.7	4.0	7.3	8.0	6.7	6.0	5.3	7.3	7.3	7.0	4.7	5.7	7.7	7.7	6.7	6.3	5.7	7.7	5.7	6.0	6.7	6.5	
PST-H5-35	7.0	8.0	4.7	4.3	6.3	6.7	6.0	7.0	8.0	7.0	6.7	5.3	7.0	7.3	7.0	5.0	6.0	7.0	8.0	6.0	6.7	5.7	6.3	5.3	8.0	6.7	6.3	6.5
SRX 2114	6.7	8.0	3.3	6.3	6.3	8.0	4.3	8.0	7.7	6.7	6.0	7.0	7.0	7.3	5.7	5.7	5.7	8.0	7.3	6.0	6.0	5.7	7.7	6.0	6.0	5.7	7.7	6.5
PRINCETON 105	8.0	5.3	4.7	6.0	8.3	5.7	5.7	7.7	8.0	7.0	5.0	6.3	7.0	7.0	5.7	6.3	6.0	7.3	7.3	6.3	5.7	5.7	4.7	7.0	8.3	5.3	6.0	6.5
H94-293	6.0	8.0	3.7	6.7	6.7	7.3	5.7	7.7	8.7	7.3	6.3	6.3	7.0	7.3	5.7	3.3	5.7	7.3	8.3	6.7	6.0	5.7	6.0	8.0	6.3	6.7	6.5	
CHAMPLAIN (A98-1275)	7.0	8.0	5.3	5.0	6.0	8.7	5.3	7.3	7.7	6.7	6.7	6.7	7.0	7.3	5.7	5.7	5.0	7.0	7.0	6.3	5.0	6.0	6.3	7.7	5.0	6.0	6.4	
PP H 7929	7.0	8.0	5.7	4.3	6.0	7.0	5.0	7.3	8.3	7.0	6.3	7.0	7.0	7.3	5.0	5.0	5.3	8.0	7.7	6.0	5.7	5.7	4.7	7.0	8.7	6.0	5.7	6.4

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TABLE 12. (CONT'D)

GENETIC COLOR RATINGS OF KENTUCKY BLUEGRASS CULTIVARS 1/  
2001 DATA

## GENETIC COLOR RATINGS 1-9; 9=DARK GREEN 2/

NAME	CO1	IA1	IL2	IL3	IN1	KY1	MA1	MD1	MII	MO1	NC1	NE1	WF2	NJ1	NJ2	NY1	OHI	OK1	PA1	RII	SD1	UT1	VA1	WA1	WA3	WI1	MEAN	
PRO SEEDS - 453	• 8.0	4.7	6.0	6.0	9.0	4.7	6.3	8.3	6.3	5.7	5.7	6.7	7.0	6.0	4.3	6.0	7.0	7.7	6.3	7.0	5.3	6.3	6.3	8.0	6.0	6.3	6.4	
NORTH STAR	7.0 7.7	5.3	5.7	8.3	4.7	6.7	8.0	7.3	6.3	5.7	7.3	7.0	4.7	4.3	6.0	7.3	7.7	6.7	7.0	5.7	6.0	5.7	8.3	6.0	5.7	6.4		
WILLOWOOD	7.0 8.0	4.7	5.7	6.3	8.0	4.3	7.7	8.0	7.0	5.7	6.7	6.7	7.3	5.0	6.0	5.3	7.3	7.3	5.3	6.3	5.3	6.0	7.3	6.0	6.3	6.3	6.4	
PST-B4-246	7.7 8.0	3.3	4.3	6.3	8.0	3.3	7.3	7.7	7.0	6.0	6.0	6.7	7.7	5.7	4.7	5.7	7.7	8.0	5.7	7.0	6.3	6.3	6.0	8.3	6.0	6.0	6.4	
A98-139	5.3 8.0	4.7	5.0	6.0	8.0	4.3	6.7	8.3	6.7	6.0	6.7	6.7	7.0	6.3	6.0	6.0	7.0	7.7	5.3	7.3	4.3	6.3	6.7	8.3	6.0	6.0	6.4	
SI A91-386	6.7 8.0	4.7	5.3	6.0	8.0	4.7	7.0	8.3	7.3	5.3	6.7	6.7	7.0	5.7	4.7	5.7	8.0	7.3	6.7	6.0	6.0	4.3	8.3	5.7	6.0	6.4		
SRX Q6245	6.7 7.7	6.0	5.0	6.3	7.7	5.0	7.0	8.0	7.3	6.3	5.3	6.7	6.7	4.7	6.0	5.7	7.7	7.3	6.0	4.0	6.3	7.0	7.7	6.3	6.0	6.4		
HALLMARK	6.0 8.0	4.3	5.3	6.0	7.7	3.7	8.0	7.0	7.3	5.7	6.7	7.0	7.3	6.0	5.0	6.0	8.0	7.7	5.7	6.7	5.3	6.0	7.7	6.3	6.0	6.0	6.4	
A96-427	5.7 7.7	6.0	5.3	6.7	8.0	5.3	7.7	8.3	6.3	6.7	6.7	6.7	7.0	5.0	5.3	5.7	7.3	7.3	5.3	6.3	5.0	5.7	5.0	7.7	6.0	6.3	6.4	
PP H 7832	6.0 8.3	3.7	6.0	6.0	7.3	4.0	7.3	8.0	6.3	6.7	7.0	7.7	7.7	5.0	4.3	5.7	7.0	7.7	5.3	7.0	5.7	6.3	5.7	8.7	5.0	6.3	6.4	
LANGARA	6.7 8.0	3.0	7.3	5.3	8.7	5.0	6.7	7.7	7.3	5.7	5.7	6.7	6.3	6.0	4.7	5.7	7.3	8.0	5.0	6.7	5.3	6.0	5.7	8.3	5.7	6.0	6.4	
RAMBO	6.7 7.3	4.7	3.0	5.7	8.7	6.0	7.7	8.0	7.3	5.7	6.0	7.0	7.0	6.7	4.3	6.0	7.3	7.7	5.0	7.0	5.0	6.0	6.0	7.0	6.3	6.0	6.4	
99AN-53	6.0 8.0	3.7	7.3	6.3	8.3	3.7	7.0	7.7	6.7	6.3	6.0	6.7	6.7	4.7	5.7	6.3	7.3	7.3	5.7	6.0	5.3	5.7	6.3	7.7	5.0	5.0	6.4	
SRX 26351	6.0 8.0	5.3	5.0	6.0	7.3	5.3	6.3	8.3	6.7	5.0	6.0	6.7	7.0	5.0	5.3	5.7	7.3	8.0	5.7	6.3	5.0	5.7	5.0	7.7	6.0	6.3	6.4	
SHOWCASE	7.3 8.0	4.0	8.0	5.7	7.3	5.0	6.7	8.3	7.0	5.7	6.0	7.0	7.7	4.7	5.0	5.7	8.0	8.0	5.7	6.3	6.3	8.3	4.7	6.0	6.0	6.3	6.4	
PST-LQG-27	7.3 8.0	3.0	7.3	6.0	8.0	4.7	6.7	8.0	7.0	6.3	5.3	6.3	6.7	5.7	3.7	5.7	7.7	8.0	5.7	6.0	5.3	4.3	8.3	6.7	6.3	6.3	6.3	
UNIQUE	7.0 7.3	2.3	8.3	6.3	7.7	5.0	6.3	8.0	7.0	6.3	6.3	6.3	6.0	4.7	3.3	5.7	8.3	8.0	6.3	6.0	6.0	5.7	7.3	5.7	6.3	6.3	6.3	
B3-171	7.0 8.0	2.0	8.0	5.7	7.7	4.7	6.7	8.0	7.0	6.3	6.0	6.3	7.0	5.3	4.7	5.3	7.3	8.0	6.0	5.7	6.0	6.3	4.0	7.3	6.7	6.3	6.3	
A98-881	5.7 7.3	6.0	4.7	6.3	8.3	5.3	7.0	7.7	7.0	6.3	6.3	7.0	6.7	4.3	5.3	6.0	7.0	7.0	5.7	6.7	5.7	5.3	6.3	7.7	4.7	6.0	6.3	
CABERNET	6.7 8.0	5.3	4.7	5.3	9.0	3.7	7.0	8.0	6.3	5.7	7.3	6.7	7.0	5.7	4.0	6.0	8.0	7.7	5.7	6.0	5.3	3.7	7.7	6.0	6.3	6.3	6.3	
PST-H-150	7.7 7.7	2.7	7.0	6.0	7.3	5.7	7.0	8.3	6.7	5.0	7.3	6.3	6.3	5.7	3.7	5.7	7.7	8.0	6.3	6.0	5.0	5.3	4.3	8.3	6.7	6.3	6.3	
HV 140	6.0 8.0	3.0	5.0	5.3	7.3	4.7	7.0	7.0	7.0	6.3	5.0	7.3	7.0	5.3	4.0	6.3	7.7	8.3	6.0	6.3	5.7	6.0	6.0	7.3	5.7	6.3	6.3	
BAR PP 0471	6.7 8.0	3.7	6.7	5.7	7.3	4.3	6.7	7.7	6.7	5.3	6.3	6.3	6.3	6.3	3.7	6.3	8.0	7.7	6.0	6.3	5.7	6.0	6.3	8.0	6.7	6.3	6.3	
DLF H 76-9037	6.3 7.7	2.0	7.3	5.7	8.0	4.7	7.0	8.0	6.3	5.7	7.3	6.7	7.0	5.7	4.3	5.7	7.3	7.7	5.7	6.0	5.7	5.3	6.3	7.7	4.7	5.3	6.2	
HV 238	6.7 8.0	4.0	4.7	6.0	8.0	5.0	7.0	7.0	7.0	7.0	6.7	7.0	7.0	4.7	5.0	6.0	7.7	7.7	5.0	6.0	5.7	5.7	7.0	7.0	6.0	6.0	6.2	
JULIA	6.3 8.0	4.3	4.3	6.0	7.0	4.7	7.0	8.0	7.3	6.3	4.3	7.0	7.0	5.3	5.0	6.0	7.0	7.0	5.3	7.0	5.3	4.7	8.3	5.0	6.3	6.2		
SHARROCK	6.3 7.0	5.3	5.0	6.0	8.0	6.3	7.0	7.7	6.7	6.0	6.7	6.6	7.0	5.3	5.0	6.0	7.3	7.0	4.3	7.0	4.7	6.0	6.3	8.0	6.0	6.0	6.2	
PP H 6370	6.7 8.0	1.7	5.0	5.7	7.3	4.0	6.3	7.7	6.7	5.3	7.3	6.7	7.0	4.7	4.7	5.7	7.0	6.7	5.0	6.3	5.3	6.0	7.3	7.0	6.7	6.3	6.2	
A97-1330	6.0 8.0	2.7	7.7	5.7	8.0	4.3	6.7	7.7	6.7	6.0	6.3	6.3	7.0	5.3	3.7	6.0	7.3	7.7	6.3	5.7	5.0	5.7	5.0	7.5	5.3	6.0	6.1	
H92-203	6.7 7.7	2.7	6.3	5.7	7.7	4.7	6.7	8.0	7.0	5.7	6.0	7.0	7.0	5.3	3.7	6.0	7.7	8.0	5.3	5.7	6.0	6.7	7.7	7.0	5.7	6.3	6.1	
APOLLO	7.7 7.7	2.3	7.3	6.3	7.3	5.0	6.3	7.3	7.3	5.7	6.0	6.0	6.0	5.0	4.0	5.3	7.7	8.0	5.3	6.3	5.0	6.0	5.0	8.3	6.0	6.0	6.1	
B3-185	6.7 8.0	2.0	6.3	5.7	7.7	4.0	7.0	7.7	6.7	6.0	6.3	6.3	7.0	5.3	3.7	6.0	7.7	8.0	6.3	6.0	5.3	6.0	4.3	7.7	6.3	6.0	6.1	
CVB-20631	6.0 8.0	4.0	4.7	5.7	6.7	4.0	7.0	7.3	6.7	6.3	5.0	7.7	7.7	5.7	4.7	5.7	7.7	7.3	5.7	6.3	5.3	5.7	5.0	7.7	4.7	5.7	6.1	
BRILLIANT	7.0 7.7	1.7	5.7	5.7	7.0	4.3	6.7	8.0	6.3	6.3	5.7	6.0	6.3	5.7	4.0	6.3	7.7	7.7	6.3	6.0	5.0	6.0	3.7	7.7	6.0	6.0	6.1	
A97-857	5.7 8.0	3.0	4.3	4.7	5.0	8.3	3.3	5.7	7.3	6.3	5.7	7.3	6.7	5.0	4.7	6.0	7.3	8.0	4.7	6.3	6.0	5.7	6.7	7.7	5.7	6.3	6.0	
MARQUIS	6.3 8.0	4.3	3.3	6.0	7.7	5.7	6.0	7.0	6.7	6.7	5.0	6.3	6.3	4.7	4.3	6.3	7.3	7.0	5.3	6.3	6.0	6.0	5.0	8.0	5.0	5.7	6.0	
ALPINE	6.0 8.0	3.0	4.3	5.7	8.0	3.0	7.3	7.7	7.0	6.0	6.7	6.7	6.3	4.0	5.3	6.7	7.3	6.0	6.7	5.0	5.7	5.0	7.7	5.7	6.3	6.0		
CHELSEA	6.3 7.7	2.7	4.7	6.0	7.3	4.7	6.3	7.0	5.0	7.0	7.7	8.0	4.7	3.0	5.3	7.7	7.7	6.3	6.0	5.3	6.0	5.3	7.7	4.7	5.7	6.0		
B5-43	7.3 8.0	3.0	4.3	5.7	8.0	5.7	6.0	7.7	6.7	6.0	4.7	7.3	7.7	4.7	3.0	6.0	7.7	7.7	5.0	6.0	4.7	6.0	5.7	8.0	4.7	6.0	6.0	
PST-1804	7.0 7.3	5.0	4.0	5.3	8.7	5.7	6.7	6.3	7.0	6.3	5.3	6.7	6.7	4.0	4.3	6.3	6.7	7.0	5.0	6.7	4.3	5.0	6.3	7.0	5.7	6.3	6.0	
CHAMPAGNE	6.7 7.0	4.7	5.3	6.0	8.3	3.7	6.7	8.0	6.7	6.3	6.3	6.3	7.0	5.0	5.3	6.3	6.3	7.7	3.7	6.0	4.0	5.3	7.0	5.7	6.3	6.0		
ROYCE (A98-304)	6.3 8.0	1.7	6.7	5.7	7.3	4.3	6.7	8.7	7.0	5.3	5.7	6.3	6.7	8.0	6.3	3.0	5.7	7.7	8.0	6.3	5.7	5.0	5.7	5.0	7.7	5.7	6.3	6.0
BARON	6.0 7.7	4.0	4.3	5.3	7.3	4.7	6.7	8.0	7.0	6.0	5.7	6.3	6.7	4.7	4.7	6.3	7.7	7.3	5.3	6.0	5.0	5.7	5.0	7.7	5.7	6.0	6.0	
GOLDRUSH	6.3 8.0	4.3	5.0	5.7	8.3	3.7	6.7	6.7	6.0	4.7	6.3	6.0	4.7	4.0	5.7	6.7	7.0	5.0	6.7	4.3	5.0	6.3	7.0	5.7	6.3	6.0	6.0	
BAR PP 0468	6.7 7.7	1.7	5.3	5.3	7.7	4.3	6.7	8.0	6.7	5.3	5.7	6.3	6.3	6.0	5.7	6.3	7.3	8.0	6.3	6.3	5.0	4.3	8.0	6.0	5.7	6.3	6.0	

TABLE 12. (CONT'D)

GENETIC COLOR RATINGS OF KENTUCKY BLUEGRASS CULTIVARS 1/  
2001 DATA</div

GENETIC COLOR RATINGS 1-9; 9=DARK GREEN 2/

Name	COL 1A1	IL12	IL3	IN1	KY1	MA1	MD1	ME1	MII1	NO1	NC1	NE1	NE2	NJ1	NJ2	NY1	OH1	OK1	PA1	R11	SD1	UT1	VA1	WA1	WA3	WT1	MEAN
JEWEL	6.0	7.7	3.0	5.7	6.0	9.0	4.3	7.0	6.7	6.0	5.3	4.7	6.0	6.3	5.0	4.3	6.0	7.0	7.0	6.3	6.7	5.0	6.3	5.7	6.0		
BARTONE	6.3	8.0	4.3	4.3	5.7	7.3	3.3	6.7	7.3	7.0	6.3	5.7	7.3	7.0	4.3	5.3	5.7	7.0	7.3	4.3	7.0	5.3	5.0	6.0	8.0	3.3	6.0
DLF 76-9032	6.7	8.0	3.0	5.0	6.0	7.0	3.3	6.3	8.0	6.7	5.0	4.7	5.7	6.7	6.0	3.7	6.3	7.7	7.3	5.7	6.3	7.7	5.3	3.7	7.7	6.0	6.0
ABBEY	6.0	7.7	4.0	4.0	5.7	8.0	5.3	6.3	6.3	7.0	5.3	5.0	6.3	6.0	3.7	4.7	6.3	7.7	7.0	5.7	5.5	6.0	6.3	7.7	6.0	6.3	6.0
A98-1028	6.0	7.3	5.0	4.0	5.7	8.7	4.7	6.3	7.7	6.3	6.0	5.0	6.7	7.0	4.3	5.0	6.0	7.3	7.0	4.7	6.3	5.0	5.0	6.0	7.0	4.7	6.0
LAKESHORE (A93-200)	7.0	7.3	4.7	4.0	6.0	7.7	5.7	6.3	7.0	5.7	6.3	5.3	7.0	7.0	5.0	4.3	5.3	6.7	7.0	4.7	7.0	4.7	5.7	7.0	5.0	5.7	6.0
B5-144	6.7	8.0	3.0	5.0	5.3	7.7	6.0	6.0	8.0	7.0	6.3	4.7	6.7	6.7	4.7	3.3	6.0	7.3	7.3	3.7	6.0	5.3	6.0	5.3	8.0	4.3	5.7
SERENE	6.0	7.7	3.3	6.3	5.3	7.3	5.0	6.3	7.7	7.0	6.7	6.0	6.7	6.0	3.7	3.0	5.7	7.0	7.0	4.7	5.7	5.7	6.0	3.7	7.0	4.7	6.3
MISTY	6.0	7.7	2.3	4.0	5.3	7.7	4.7	6.7	8.0	6.7	6.0	6.0	6.3	6.4	4.7	4.0	5.7	7.3	7.3	4.7	6.0	5.3	6.3	3.7	7.7	5.0	6.0
BARTILLA	6.0	8.0	3.0	4.3	5.3	7.0	4.0	6.7	7.3	7.0	6.3	5.0	6.7	7.0	4.0	3.7	5.7	7.0	7.0	5.7	7.3	5.0	5.3	3.7	7.7	5.7	6.0
BARZAN	6.3	7.0	2.3	4.7	5.0	6.7	5.0	6.7	7.3	6.3	5.7	7.3	7.3	3.7	3.7	5.7	7.0	7.3	5.3	6.3	5.7	6.0	6.7	7.3	5.0	5.9	
FARFAK	7.0	7.7	3.7	5.0	5.3	7.3	6.0	6.7	7.3	6.7	5.7	4.7	6.3	7.3	4.0	2.7	6.0	7.3	7.0	4.7	6.3	5.0	6.0	5.3	8.0	5.0	5.9
RAVEN	6.3	7.7	3.7	4.0	5.3	6.7	4.7	6.0	6.3	7.0	6.0	4.0	6.3	6.0	3.7	4.7	6.0	7.3	7.0	6.0	7.0	6.0	5.7	8.3	6.0	6.0	
ALLURE	6.0	8.0	4.0	4.3	5.7	8.0	5.0	6.7	7.0	6.7	5.7	3.7	6.7	7.0	4.7	3.3	6.0	8.0	7.7	5.0	6.7	4.7	5.3	5.9	6.0	6.0	
BROOKLAWN	6.7	7.3	4.0	3.7	5.7	8.0	4.7	7.0	7.0	6.0	6.3	6.3	7.3	5.0	4.0	6.0	6.7	7.0	4.3	6.7	4.3	5.3	6.0	6.3	5.0	5.7	
PST-108-79	7.0	8.0	5.0	4.3	5.3	7.3	4.0	6.7	8.3	6.7	5.7	5.0	6.0	6.7	4.7	3.7	6.0	7.0	7.3	4.3	5.0	4.7	6.0	6.7	7.3	5.0	5.9
PST-1701	7.3	7.3	3.0	6.0	5.7	8.3	3.7	6.7	7.7	7.0	5.7	6.0	6.7	6.0	4.0	4.7	6.0	6.0	7.0	4.7	6.7	3.3	6.0	3.7	8.0	5.7	6.0
LIMERICK	6.7	7.7	3.3	5.0	5.3	8.3	4.0	6.3	7.7	7.3	6.0	6.0	6.3	5.7	4.0	3.7	6.7	7.0	7.0	4.3	6.0	5.0	6.0	4.3	7.3	4.3	6.3
BARRIRIS	6.0	8.0	4.0	4.0	4.7	5.3	7.3	3.7	6.7	7.3	6.7	5.7	5.7	7.0	7.0	4.3	5.0	5.7	6.3	7.3	4.3	6.0	5.0	5.7	7.7	4.0	6.0
CHATEAU	6.0	8.0	2.3	4.3	5.3	7.0	3.7	6.7	7.7	7.3	5.7	4.7	6.7	7.0	4.0	3.0	5.7	7.3	7.3	4.3	6.0	5.0	5.7	5.7	7.7	4.0	6.0
DLF 76-9036	6.3	7.7	4.3	2.7	5.3	8.0	4.0	6.0	7.0	6.7	5.7	5.0	6.0	6.7	4.0	4.3	5.7	7.0	7.3	4.7	6.0	4.7	6.7	5.3	7.0	5.7	6.0
ENTVICTA	6.3	7.7	3.3	3.3	5.7	7.0	4.3	6.3	6.0	6.7	6.0	4.0	6.0	5.3	4.7	5.0	6.0	7.0	7.3	6.3	6.3	5.7	6.0	7.3	5.7	6.0	5.8
LILLY	7.0	7.7	3.0	4.3	5.7	7.7	6.0	6.7	7.7	7.0	5.7	5.0	6.7	6.3	3.3	3.0	6.3	7.7	7.0	4.0	5.7	4.0	5.3	6.0	7.7	4.7	5.8
B5-45	7.0	7.7	2.7	4.7	6.0	7.7	5.3	6.0	7.3	6.3	5.7	4.7	6.7	7.0	4.3	3.0	5.3	7.3	7.0	4.3	6.0	4.7	6.0	5.7	7.7	4.7	5.8
B4-128A	6.7	7.3	2.3	5.7	5.3	7.3	4.7	6.3	8.0	7.0	5.7	5.7	6.7	6.7	5.3	3.3	6.0	7.0	8.0	3.7	5.0	5.0	6.0	4.7	7.7	5.3	6.0
COVENTRY	6.0	7.3	2.3	4.7	5.3	7.3	5.0	6.3	6.7	7.3	5.7	4.7	6.7	7.0	4.0	3.0	5.7	7.7	7.3	4.7	6.3	5.0	5.7	7.7	5.3	6.0	5.8
JEFFERSON	6.0	7.3	2.0	3.3	5.7	8.0	4.7	7.0	8.3	6.7	6.0	5.7	6.7	6.0	3.7	4.0	6.0	5.7	7.0	3.7	5.7	4.3	5.7	7.0	5.3	6.0	5.7
LIMOUSINE	6.3	8.0	3.3	3.0	5.3	6.7	5.0	6.3	7.0	6.7	5.0	5.7	6.0	6.7	4.3	3.0	6.0	7.3	7.3	4.0	5.7	5.0	5.7	6.7	5.0	6.3	5.6
JULIUS	6.3	8.0	2.0	4.3	5.3	7.0	4.7	6.3	7.7	7.6	5.7	5.3	6.7	7.0	4.3	1.3	6.3	7.0	7.0	4.7	5.3	4.0	5.7	5.7	5.0	6.7	5.6
BARONIE	5.7	7.0	1.3	4.0	6.3	8.3	4.0	7.0	8.3	7.0	6.3	5.0	6.3	6.0	4.7	4.0	5.0	5.7	7.0	3.0	5.3	4.3	5.3	5.0	7.0	4.7	6.3
BH 00-6002	6.0	7.0	3.7	2.7	5.3	8.3	3.3	6.3	7.7	7.0	5.7	4.7	6.5	7.0	3.7	3.3	6.0	6.7	7.0	3.7	6.3	4.7	5.7	6.7	5.3	6.3	5.6
PP H 6366	6.0	8.0	1.0	5.3	5.3	6.7	5.0	6.0	6.7	5.7	5.0	5.6	6.7	6.0	4.0	2.3	6.0	7.3	7.7	3.7	6.0	3.3	4.0	8.0	4.7	6.0	5.5
WELLINGTON	7.0	7.3	2.7	6.3	5.0	7.7	2.3	6.0	5.7	6.0	5.0	4.7	5.7	5.3	4.0	3.0	5.7	6.7	7.0	5.3	7.4	4.0	5.7	7.0	5.0	7.7	5.4
WASHINGTON	7.0	7.0	1.0	4.7	5.3	7.3	4.0	6.0	6.3	6.3	5.0	3.7	6.3	6.3	3.3	3.7	5.7	5.7	7.0	5.0	6.3	4.0	5.0	3.6	6.7	4.7	6.3
A96-742	5.7	7.0	1.7	3.7	5.3	7.0	3.3	6.0	6.3	6.7	5.0	3.7	6.0	6.0	4.0	4.3	6.0	6.3	7.0	4.7	5.0	4.0	5.0	4.7	6.7	6.3	5.4
GO-91M9	6.0	6.7	3.7	5.0	5.0	6.7	4.7	5.7	6.3	6.3	5.0	5.7	5.0	5.0	2.7	3.0	5.7	5.7	6.7	5.0	5.3	3.3	5.0	6.3	6.7	4.3	5.3
DLF 76-9034	6.3	7.0	1.3	3.7	5.0	7.0	4.0	6.7	6.0	6.0	5.0	5.3	5.0	6.3	4.0	4.7	6.3	5.7	7.0	3.7	5.3	4.7	5.3	5.7	5.3	5.7	5.2
EAGLETON	6.7	7.0	1.7	3.3	5.0	7.3	3.7	6.0	7.0	6.3	5.0	5.3	6.0	5.0	4.0	2.3	5.7	5.7	7.0	3.7	5.3	3.0	5.7	5.3	6.3	5.3	6.0
KENBLUE	4.7	7.3	1.3	4.3	5.0	6.7	3.0	5.3	6.7	7.0	5.0	3.3	5.0	6.0	3.7	2.7	5.7	5.3	6.7	5.0	4.0	4.7	4.3	6.0	5.0	5.7	5.0

1/ TO DETERMINE STATISTICAL DIFFERENCES AMONG ENTRIES, SUBTRACT ONE ENTRY'S MEAN STATISTICAL DIFFERENCES OCCUR WHEN THIS VALUE IS LARGER THAN THE CORRESPONDING LSD VALUE (LSD 0.05).

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TABLE 14. LEAF TEXTURE RATINGS OF KENTUCKY BLUEGRASS CULTIVARS  
2001 DATA

NAME	LEAF TEXTURE RATINGS 1-9; 9=VERY FINE 2/					
	IA1	IL2	IL3	MD1	NJ1	NJ2
KENBLUE	9.0	7.0	8.7	7.7	9.0	8.3
A97-857	8.7	8.0	9.0	8.0	7.7	8.2
GO-9LM9	9.0	6.0	8.7	8.0	8.0	8.0
B4-12BA	8.0	7.3	7.7	7.7	7.3	8.0
ALPINE	8.0	6.0	9.0	7.3	7.7	7.7
SRX 26551	8.7	6.0	8.0	8.0	7.3	7.6
NORTH STAR	8.0	6.3	8.0	7.7	7.3	8.0
DLF 76-9032	8.0	7.7	8.3	8.0	6.7	6.0
PP H 6366	8.0	6.3	7.0	8.0	7.7	7.7
APOLLO	8.7	8.3	7.7	7.3	6.0	6.3
CHELSEA	8.0	7.0	7.7	7.3	6.7	7.4
PP H 6370	8.0	6.7	7.0	7.0	7.7	7.3
WELLINGTON	9.0	6.7	6.3	7.0	7.3	7.3
JULIUS	8.0	5.7	8.0	7.7	7.7	6.7
WASHINGTON	9.0	6.7	6.7	7.3	7.7	6.0
HV 140	8.0	5.3	7.7	7.0	7.7	7.2
PST-1701	8.3	6.3	7.7	7.0	7.3	6.0
A97-1330	8.3	6.7	7.7	7.0	6.3	6.0
UNIQUE	8.0	6.7	8.3	7.0	6.3	5.3
PST-108-79	8.0	4.3	8.3	7.0	6.7	7.3
SRX 27921	8.3	5.3	7.3	7.0	7.0	6.7
PST-B4-246	8.0	6.0	7.7	7.0	6.3	6.3
PST-B5-125	8.0	6.0	7.3	7.0	6.7	6.3
BAR PP 0471	8.0	6.7	8.0	7.0	6.0	5.3
HALLMARK	8.0	5.7	7.0	7.0	6.7	6.7
J-1513	9.0	5.7	8.0	7.0	5.7	5.7
ROYCE (A98-304)	8.3	7.3	6.3	7.0	6.3	5.7
WILDWOOD	8.3	5.7	6.3	7.0	6.7	7.0
BAR PP 0468	8.0	6.7	7.3	7.0	6.3	5.3
IMPACT	8.3	5.3	8.0	7.0	6.0	6.0
H92-203	8.3	6.0	7.3	7.0	6.3	5.7
J-2890	8.3	5.7	7.7	7.0	6.3	5.7
LANGARA	8.0	6.3	7.0	7.3	6.0	6.8
MOON SHADOW (PICK 113-3)	8.0	6.3	7.0	7.0	6.0	6.3
ODYSSEY	8.3	5.7	8.7	7.0	5.7	5.3
SRX 2114	8.3	5.7	8.0	7.0	6.0	5.7
BLACKSTONE	8.3	5.0	6.3	7.7	6.7	6.3
J-2695	8.7	6.3	7.0	7.0	5.3	6.7
TSUNAMI (J-2487)	8.7	5.0	8.3	6.7	6.0	6.7
B3-185	8.0	6.0	7.7	7.0	5.7	5.7
CABERNET	8.0	5.3	7.0	7.0	6.3	6.3
DLF 76-9037	8.0	6.0	7.7	7.0	5.3	6.0
PST-H6-150	8.0	6.7	7.7	7.0	5.7	6.7
PST-19G-27	8.0	5.7	8.3	7.0	5.3	6.6

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TABLE 14. LEAF TEXTURE RATINGS OF KENTUCKY BLUEGRASS CULTIVARS 1/  
(CONT'D) 2001 DATA

NAME	LEAF TEXTURE RATINGS 1=9; 9=VERY FINE 2/					MEAN
	TA1	TL2	TL3	MD1	NJ1	
BRILLIANT	8.0	6.3	7.3	7.0	5.3	5.7
J-1368	8.3	5.3	7.3	7.0	6.0	5.7
J-1838	8.0	5.3	8.3	7.0	5.7	6.6
J-2561	8.3	4.7	8.0	7.0	6.0	5.3
PST-B3-170	8.0	5.3	8.0	6.7	6.0	5.7
UNKNOWN	8.3	5.0	8.0	7.0	5.7	6.6
B3-171	8.0	5.7	7.3	7.0	6.0	5.3
JULIA	8.0	5.0	7.3	7.0	6.3	5.7
PST-YORK HARBOR 4	8.0	6.3	7.3	6.7	6.0	5.0
ARCADIA	8.0	5.0	8.3	6.7	5.3	5.7
BARRISTER (J-1655)	8.0	5.7	7.3	7.0	6.0	5.0
HV 238	7.3	7.7	6.7	7.0	5.3	5.0
MIDNIGHT	8.3	5.0	7.0	7.0	5.7	6.0
NUGLADE	8.3	5.0	7.7	7.0	5.7	5.3
ROYALE (A97-1336)	8.0	6.0	5.3	7.0	6.0	6.5
SHOWCASE	8.0	5.7	7.0	7.0	5.7	5.7
A96-742	8.7	5.3	6.3	6.7	6.3	5.3
A97-1715	8.3	6.0	6.3	6.3	5.7	6.4
BEYOND (J-1880)	8.0	5.0	7.3	7.0	5.7	6.0
FREEDOM II	8.3	5.3	7.0	7.0	5.3	5.7
RUGBY II	8.0	4.3	8.0	7.0	6.0	5.3
SR 2284 (SRX 2284)	8.0	5.7	6.7	7.0	5.7	5.7
AWARD	8.3	5.3	7.0	7.0	5.3	5.3
J-1420	8.0	5.0	7.7	6.7	5.7	5.7
J-2885	8.0	5.3	7.3	7.0	5.3	5.3
LIMERICK	8.3	5.3	5.0	7.0	6.7	6.0
PRO SEEDS - 453	8.0	4.7	7.0	7.0	6.3	5.3
SRX 2394	8.0	5.0	8.0	7.0	5.3	5.4
BARIRIS	8.0	5.7	7.3	7.0	4.7	5.0
BARZAN	8.0	3.3	7.3	7.0	7.0	5.3
JEFFERSON	8.3	6.3	6.3	7.0	4.3	5.7
MIDNIGHT II (A98-739)	8.3	5.7	6.3	7.0	5.7	5.0
SRX QC245	8.7	4.0	5.7	6.7	6.7	6.0
CVB-20631	8.0	5.0	6.3	7.0	5.0	6.3
EVEREST	8.3	4.3	7.3	6.7	5.7	5.0
EVERGLADE	8.0	5.3	6.7	6.7	5.3	5.3
PP H 7929	8.0	3.0	8.3	7.0	5.3	5.7
TOTAL ECLIPSE	8.3	5.0	7.0	7.0	5.3	4.7
BARTITA	8.0	3.7	5.3	8.0	6.3	5.7
BLUE KNIGHT	8.0	3.7	6.3	7.0	6.3	5.7
H94-253	8.0	4.7	6.3	7.0	5.7	5.3
RAMBO	8.0	4.0	7.0	7.0	5.7	5.3
BLUESTONE (PST-731)	8.0	4.3	7.3	7.0	5.7	4.7
BAR PP 0573	8.0	5.3	6.7	7.0	5.3	4.3
J-1515	8.0	5.0	6.3	6.7	5.7	5.0

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TABLE 14. LEAF TEXTURE RATINGS OF KENTUCKY BLUEGRASS CULTIVARS  
(CONT'D.) 2001 DATA

## LEAF TEXTURE RATINGS 1-9; 9=VERY FINE 2/

NAME	TA1	TL2	TL3	MD1	NJ1	NJ2	MEAN
BOOMERANG	8.3	4.0	7.7	7.0	5.7	4.0	6.1
LIBERATOR	8.0	4.0	6.0	7.0	6.0	5.7	6.1
PICK-232	8.0	5.0	6.7	6.3	5.3	5.3	6.1
PST-1604	8.0	4.3	5.3	7.0	6.3	5.7	6.1
A98-1028	8.0	5.7	4.3	7.0	6.0	5.3	6.1
BA 00-6001	8.0	5.3	5.7	6.7	5.3	5.3	6.1
BA 82-288	8.0	4.3	7.0	7.0	5.7	4.3	6.1
BORDEAUX	8.0	4.7	7.3	7.0	5.0	4.3	6.1
EXCURSION (J-1648)	8.0	5.0	6.7	6.7	5.3	4.7	6.1
A97-1432	8.0	4.7	6.3	7.0	5.3	5.0	6.1
BOUTIQUE	8.0	4.3	7.0	6.3	5.0	5.7	6.1
LAKESHORE (A93-200)	8.0	5.0	4.3	7.0	6.0	6.0	6.1
A98-881	8.0	3.3	6.0	7.0	5.7	6.0	6.0
ASCOT	8.0	4.0	6.0	7.0	5.7	5.3	6.0
CHAMPAGNE	7.7	4.0	6.0	7.0	6.0	5.3	6.0
QUANTUM LEAP	8.0	4.7	6.0	7.0	5.7	4.7	6.0
SONOMA	8.0	4.7	6.7	7.0	5.0	4.7	6.0
PP H 7832	8.0	3.3	7.0	7.0	4.3	6.0	5.9
A97-1409	8.0	5.7	7.0	6.3	4.3	4.3	5.9
MALLARD (A97-1439)	8.0	5.0	6.3	7.0	5.3	3.7	5.9
A96-427	8.0	4.7	6.0	6.0	5.3	5.0	5.8
BARONETTE (BA 81-058)	8.0	4.7	6.0	6.7	4.7	5.0	5.8
GOLDSTAR (A98-296)	8.0	4.7	6.3	6.3	5.3	4.3	5.8
LIMOUSINE	8.0	3.0	5.3	7.7	5.7	5.3	5.8
PST-161	8.0	4.7	6.3	7.0	4.3	4.7	5.8
PST-HB-35	8.0	4.7	5.7	6.7	5.3	4.7	5.8
HARITONE	8.0	4.0	6.0	7.0	4.7	5.0	5.8
CHAMPLAIN (A98-1275)	8.0	4.3	6.0	6.7	4.7	5.0	5.8
RITA	8.0	4.3	6.7	6.7	4.7	4.3	5.8
A96-739	8.3	4.0	6.7	7.0	5.0	3.3	5.7
BROOKLAWN	8.0	4.0	4.7	6.3	6.0	5.3	5.7
ARROW (A97-1567)	8.0	3.7	7.0	7.0	4.3	4.3	5.7
A98-139	8.0	4.0	6.0	7.0	4.0	5.0	5.7
GOLDRUSH	8.0	3.3	5.0	7.0	5.7	5.0	5.7
NA-K92	8.3	4.7	6.3	6.0	5.0	3.7	5.7
PRINCETON 105	8.0	4.0	4.3	7.0	5.3	5.3	5.7
SHAMROCK	8.0	2.7	5.3	7.0	6.0	5.0	5.7
BARONIE	7.7	4.7	6.3	7.0	3.7	4.3	5.6
A98-183	8.0	4.7	7.0	6.0	4.3	3.3	5.6
BODACIOUS	8.0	3.7	7.3	6.7	4.3	3.3	5.6
DLF 76-9036	8.0	3.7	5.7	7.0	4.0	5.0	5.6
H92-558	8.0	3.7	8.0	6.3	4.3	3.0	5.6
BARON	8.0	2.7	5.7	7.0	4.7	5.0	5.5
BEDAZZLED	8.0	4.0	5.7	7.0	4.3	4.0	5.5
EAGLETON	8.0	4.0	6.0	7.0	4.0	4.0	5.5
TABLE 14. LEAF TEXTURE RATINGS OF KENTUCKY BLUEGRASS CULTIVARS 1/ (CONT'D.) 2001 DATA							

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NAME	LEAF TEXTURE RATINGS 1-9; 9=VERY FINE						MEAN
	TA1	TL2	TL3	MD1	NJ1	NJ2	
SERENE	8.0	3.3	4.3	7.0	6.0	4.0	5.4
BA 84-140	7.7	3.3	5.3	6.0	5.7	4.7	5.4
CHICAGO II	8.0	4.0	5.3	7.0	4.3	4.0	5.4
BAR PP 0566	8.0	3.7	6.3	6.0	5.0	3.3	5.4
PP H 7907	8.0	3.3	4.3	6.7	5.7	4.3	5.4
BA 83-113	7.7	5.0	6.3	6.3	4.0	3.0	5.4
PST-604	8.3	4.3	5.3	6.3	4.0	4.0	5.4
A98-365	8.0	3.7	6.3	6.7	4.3	3.0	5.3
ABBEY	8.0	2.7	4.3	7.0	5.3	4.7	5.3
PICK 453	8.0	4.0	6.3	6.7	3.3	3.7	5.3
BLACKSBURG II (PST-1BNY)	8.0	5.0	6.0	6.0	3.7	3.0	5.3
MOONLIGHT	8.0	3.3	7.0	6.3	3.3	3.7	5.3
SI A96-386	8.0	3.7	5.7	6.7	3.7	4.0	5.3
JEWEL	8.0	4.0	5.0	6.3	3.7	4.3	5.2
PST-B5-89	8.0	4.0	7.0	6.0	3.7	2.7	5.2
BH 00-6003	7.3	4.3	7.3	5.7	4.0	2.3	5.2
A96-451	8.0	4.3	6.0	6.0	3.3	3.3	5.2
B5-43	8.0	2.3	6.0	6.7	3.7	4.0	5.1
BH 00-6002	7.7	2.7	5.0	6.3	4.3	4.7	5.1
PICK 417	7.7	4.7	5.3	6.7	2.7	3.7	5.1
B5-45	8.0	2.7	4.7	6.7	4.0	4.0	5.0
MONTE CARLO (A96-402)	8.0	3.0	6.0	6.7	3.3	3.0	5.0
NA-K991	8.0	3.3	5.7	6.0	3.7	3.0	4.9
RAVEN	7.7	2.7	4.3	7.0	4.7	3.3	4.9
BLUE RIDGE (A97-1449)	7.7	3.3	6.3	6.3	3.7	2.0	4.9
IB7-308	8.0	4.3	5.0	6.0	2.7	3.3	4.9
COVENTRY	8.0	2.0	3.7	7.0	3.3	5.0	4.8
MISTY	8.0	3.7	3.7	7.0	4.3	2.3	4.8
LILLY	8.0	1.7	5.0	6.3	4.0	3.7	4.8
PST-222	7.7	3.0	6.7	6.0	3.3	2.0	4.8
ALLURE	7.7	2.0	5.0	6.3	4.0	3.3	4.7
MARQUIS	8.0	2.0	3.3	7.0	3.7	4.3	4.7
99AN-53	8.0	2.0	6.0	6.3	2.3	3.3	4.7
A98-407	8.0	2.3	6.3	6.0	2.7	2.3	4.6
ENVICTA	8.0	2.0	4.0	6.7	3.0	4.0	4.6
B5-144	8.0	2.3	4.0	6.3	3.3	2.7	4.4
DLF 76-9034	7.7	3.7	2.7	5.7	3.0	4.0	4.4
FAIREFAK	8.0	2.0	3.0	6.3	4.0	3.0	4.4
CHATEAU	7.3	1.7	3.0	6.3	2.0	2.7	3.8
LSD VALUE	0.5	1.5	1.9	0.6	1.3	1.3	0.5
C.V. (%)	3.8	19.3	18.1	5.1	15.5	16.0	13.0

1 / TO DETERMINE STATISTICAL DIFFERENCES AMONG ENTRIES, SUBTRACT ONE ENTRY'S MEAN FROM ANOTHER ENTRY'S MEAN.  
 STATISTICAL DIFFERENCES OCCUR WHEN THIS VALUE IS LARGER THAN THE CORRESPONDING LSD VALUE (LSD 0.05).

2 / C.V. (COEFFICIENT OF VARIATION) INDICATES THE PERCENT VARIATION OF THE MEAN IN EACH COLUMN.

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TABLE 22.

WINTER COLOR RATINGS OF KENTUCKY BLUEGRASS CULTIVARS  
2001 DATA

WINTER COLOR RATINGS 1-9; 9=COMPLETE COLOR RETENTION 2/					
NAME	NJ1	NJ2	VA1	MEAN	NAME
A97-1409	5.7	8.3	9.0	7.7	BAR PP 0573
BARONETTE (BA 81-058)	6.7	8.0	7.7	7.4	CHICAGO II
A96-451	5.7	8.7	7.7	7.3	CVB-20631
BLUE RIDGE (A97-1449)	6.0	7.0	9.0	7.3	J-1368
PST-222	5.3	8.0	8.7	7.3	JEFFERSON
RITA	7.0	7.7	7.3	7.3	PST-161
BA 83-113	7.0	6.7	8.0	7.2	QUANTUM LEAP
SR 2284 (SRX 2284)	5.7	7.7	8.3	7.2	SERENE
MALLARD (A97-1439)	6.7	7.0	7.7	7.1	CHAMPAGNE
BA 82-288	6.3	7.0	7.7	7.0	99NAME-53
MISTY	7.3	7.0	6.7	7.0	LILY
BARONIE	7.0	7.0	6.7	6.9	H94-293
BEDAZZLED	6.0	7.3	7.3	6.9	PST-B5-125
MOONLIGHT	5.0	7.0	8.3	6.8	BEYOND (J-1880)
BAR PP 0566	6.0	7.3	7.0	6.8	GOLDSTAR (A98-296)
LANGARA	6.3	7.0	7.0	6.8	A96-739
A97-1432	6.3	5.7	8.0	6.7	BARTONITE
BLACKSTONE	6.0	5.7	8.3	6.7	BLUESTONE (PST-731)
BOUTIQUE	6.0	7.0	7.0	6.7	EXCURSION (J-1648)
TB7-308	4.7	7.3	8.0	6.7	IMPACT
PST-B5-89	5.0	6.7	8.3	6.7	J-1420
A96-427	5.7	6.3	7.7	6.6	J-1515
A98-407	4.7	7.0	8.0	6.6	ROYALE (A97-1336)
MONTE CARLO (A96-402)	5.3	6.7	7.7	6.6	SI A96-386
PST-604	5.0	7.0	7.7	6.6	UNKNOWN
BH 00-6003	5.3	5.7	8.7	6.6	WILDWOOD
BLACKSBURG II (PST-1EMY)	5.3	7.0	7.3	6.6	A98-1028
BLUE KNIGHT	6.0	5.0	8.7	6.6	ALLURE
PST-108-79	7.0	6.3	6.3	6.6	BARRISTER (J-1655)
X SONOMA	5.3	7.0	7.3	6.6	BORDEAUX
BARZAN	7.0	5.0	7.3	6.4	H92-558
NA-K991	5.3	6.0	8.0	6.4	J-2561
PST-H5-35	6.7	6.3	6.3	6.4	J-2885
PST-YORK HARBOR 4	6.0	6.3	7.0	6.4	J-2890
SRX 2394	4.7	7.3	7.3	6.4	PP H 6370
ARROW (A97-1567)	7.0	6.0	6.0	6.3	PST-B3-170
FREEDOM II	6.0	6.0	7.0	6.3	TOTAL ECLIPSE
HV 238	5.7	6.3	7.0	6.3	A97-857
JULIA	6.3	5.7	7.0	6.3	A98-139
PP H 7832	5.7	5.3	8.0	6.3	A98-183
SHAMROCK	6.7	5.3	7.0	6.3	A98-365
SRX 2114	5.3	6.7	7.0	6.3	MIDNIGHT
SRX 26351	6.7	5.3	7.0	6.3	MOON SHADOW (PICK 113-3)
A98-881	6.0	5.0	7.7	6.2	SRX QG245
					B5-144

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TABLE 22. (CONT'D)

WINTER COLOR RATINGS OF KENTUCKY BLUEGRASS CULTIVARS 1/  
2001 DATA

NAME	WINTER COLOR RATINGS 1-9; 9=COMPLETE COLOR RETENTION 2/			NAME	WINTER COLOR RATINGS 1-9; 9=COMPLETE COLOR RETENTION 2/			
	NJ1	NJ2	VAI		MEAN	NJ1	NJ2	VAI
EAGLETON	5.7	6.0	5.7	5.8	A96-742	4.7	4.7	6.3
EVERGLADE	5.7	4.7	7.0	5.8	BODACIOUS	4.7	4.3	6.7
ARCADIA	6.0	4.3	7.0	5.8	PST-1701	4.7	5.7	5.3
BA 84-140	3.3	5.3	8.7	5.8	SRX 27921	4.7	4.0	6.7
BROOKLAWN	6.3	4.3	6.7	5.8	APOLLO	4.0	7.3	4.0
CHAMPLAIN (A98-1275)	5.3	5.0	7.0	5.8	ASCOT	6.0	3.0	6.3
EVEREST	6.0	4.3	7.0	5.8	BAR PP 0468	4.0	7.3	4.0
FAIRFAX	6.0	5.3	6.0	5.8	BOONERANG	4.3	3.7	7.3
HALLMARK	5.0	5.3	7.0	5.8	PP H 6366	4.3	6.0	5.0
J-2695	6.3	4.3	6.7	5.8	ROYCE (A98-304)	4.0	7.0	4.3
PICK 417	5.3	5.3	6.7	5.8	SHOWCASE	4.0	7.3	4.0
RAMBO	6.0	5.3	6.0	5.8	A97-1330	3.7	7.0	4.3
AWARD	5.3	4.7	7.0	5.7	H92-203	4.0	7.0	4.0
B4-128A	6.3	6.0	4.7	5.7	ODYSSEY	5.0	3.7	6.3
B5-43	5.3	5.7	6.0	5.7	PP H 7907	4.3	4.7	6.0
BARRIS	5.7	5.0	6.3	5.7	PP H 7929	5.7	4.0	5.3
CABERNET	5.3	5.3	6.3	5.7	PST-1QG-27	3.7	6.3	5.0
COVENTRY	5.3	5.7	6.0	5.7	PST-H6-150	3.7	7.0	4.3
J-1513	6.0	4.0	7.0	5.7	WELLINGTON	5.7	3.7	5.7
J-1838	5.7	4.3	7.0	5.7	BAR PP 0471	4.0	6.7	4.0
LAKESHORE (A93-200)	6.0	4.0	7.0	5.7	ENVICTA	4.7	4.0	6.0
LIMOUSINE	5.3	6.0	5.7	5.7	WASHINGTON	4.7	4.0	6.0
MIDNIGHT II (A98-739)	6.3	4.0	6.7	5.7	B3-185	3.7	7.0	4.0
NUGLADE	5.0	6.3	5.7	5.7	DLF 76-9037	3.7	7.0	4.0
PST-B4-246	4.7	5.7	6.7	5.7	NA-W992	3.0	3.7	8.0
RUGBY II	5.7	4.3	7.0	5.7	UNIQUE	3.0	6.7	4.7
TSUNAMI (J-2487)	6.0	4.3	6.7	5.7	BRILLIANT	4.3	6.0	4.0
HV 140	6.7	3.3	6.7	5.6	ABBEY	3.7	4.0	6.3
PICK 453	5.0	5.0	6.7	5.6	BARON	4.3	3.3	6.3
PRINCETON 105	4.7	5.0	7.0	5.6	GO-SLM9	5.0	2.3	6.7
A97-1715	4.0	5.3	7.3	5.6	JEWEL	3.7	2.3	8.0
B3-171	5.3	7.0	4.3	5.6	GOLDRUSH	3.3	4.0	6.0
B5-45	5.3	5.3	6.0	5.6	RAVEN	3.3	3.3	6.7
LIBERATOR	6.0	4.3	6.3	5.6	BH 00-6002	3.3	4.3	5.3
PST-1804	5.3	4.3	7.0	5.6	LIMERICK	4.0	4.3	4.7
PRO SEEDS - 453	4.0	6.7	5.7	5.4	DLF 76-9034	3.0	4.3	5.3
BARTITIA	6.0	4.3	6.0	5.4	KENNELUE	4.3	3.3	5.0
CHATEAU	5.3	5.7	5.3	5.4	DLF 76-9036	4.0	3.0	5.3
ALPINE	5.7	3.3	7.0	5.3	MARQUIS	3.0	3.0	6.0
BA 00-6001	5.0	4.3	6.7	5.3	DLF 76-9032	3.3	3.0	5.3
CHELSEA	5.3	4.0	6.7	5.3				3.9
JULIUS	5.3	5.3	5.3	5.3	LSD VALUE	1.2	1.3	1.1
NORTH STAR	5.7	3.7	6.7	5.3	C.V. (%)	14.0	14.8	10.0
PICK-232	5.0	5.7	5.3	5.3				12.7

1/ TO DETERMINE STATISTICAL DIFFERENCES AMONG ENTRIES, SUBTRACT ONE ENTRY'S MEAN FROM ANOTHER ENTRY'S MEAN.  
 STATISTICAL DIFFERENCES OCCUR WHEN THIS VALUE IS LARGER THAN THE CORRESPONDING LSD VALUE (LSD 0.05).

**REPRODUCE LOCALLY. Include form number and date on all reproductions.**

U.S. DEPARTMENT OF AGRICULTURE  
AGRICULTURAL MARKETING SERVICE

FORM APPROVED - OMB NO. 0581-001

The following statements are made in accordance with the Privacy Act of 1974 (5 U.S.C. 552e) and the Paperwork Reduction Act (PRA) of 1995.

Application is required in order to determine if a plant variety protection certificate is to be issued (7 U.S.C. 2421). Information is held confidential until certificate is issued (7 U.S.C. 2426).

**EXHIBIT E**

**STATEMENT OF THE BASIS OF OWNERSHIP**

**1. NAME OF APPLICANT(S)**

Lebanon Seaboard Corporation

**2. TEMPORARY DESIGNATION OR EXPERIMENTAL NUMBER**

A97-1323 &  
LTP-1323

**3. VARIETY NAME**

Sonoma

**4. ADDRESS (Street and No., or R.F.D. No., City, State, and ZIP Code, and Country)**

P.O. Box 10  
Huntsville, UT 84317-0010

**5. TELEPHONE (Include area code)**

503-580-7333

**6. FAX (Include area code)**

801-745-4610

**7. PVPO NUMBER**

200300157

**8. Does the applicant own all rights to the variety? Mark an "X" in appropriate block. If no, please explain.**

YES     NO

**9. Is the applicant (individual or company) a U.S. national or U.S. based company?  
If no, give name of country**

YES     NO

**10. Is the applicant the original owner?**  YES     NO    *If no, please answer the following:*

a. If original rights to variety were owned by individual(s), is (are) the original owner(s) a U.S. national(s)?

YES     NO    *If no, give name of country*

b. If original rights to variety were owned by a company, is the original owner(s) a U.S. based company?

YES     NO    *If no, give name of country*

**11. Additional explanation on ownership (if needed, use reverse for extra space):**

Sonoma was acquired through an Option agreement with Rutgers University and The New Jersey Agricultural Experiment Station as an experimental selection for testing. Royalties will be paid to Rutgers annually, based on production level.

**PLEASE NOTE:**

Plant variety protection can be afforded only to owners (not licensees) who meet one of the following criteria:

1. If the rights to the variety are owned by the original breeder, that person must be a U.S. national, national of a UPOV member country, or national of a country which affords similar protection to nationals of the U.S. for the same genus and species.
2. If the rights to the variety are owned by the company which employed the original breeder(s), the company must be U.S. based, owned by nationals of a UPOV member country, or owned by nationals of a country which affords similar protection to nationals of the U.S. for the same genus and species.
3. If the applicant is an owner who is not the original owner, both the original owner and the applicant must meet one of the above criteria.

The original breeder/owner may be the individual or company who directed final breeding. See Section 41(a)(2) of the Plant Variety Protection Act for definition.

According to the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number. The valid OMB control number for this information collection is 0581-0055. The time required to complete this information collection is estimated to average 10 minutes per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

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